





SOUTH CENTRAL RAILWAY

Office of the Sr.Divl. Mech. Engineer
Diesel Loco shed, Kazipet-506003- Ph&Fax No.08702576154

No. C/M/DSL/KZJ/DTTC/9/2024

Date: 27.12.2024

Sr. DPO/SC

Sub: Syllabus and sample questions for filling up of the post of STI (Mechanical wing) at DTTC/KZJ of Mechanical Department- Secundrabad Division

Ref:-Sr.DPO/SC Lr.No.SCR/P-SC/210(a)/CTI/EM/126812-dated.10.12.24

With reference to the above subject, herewith enclosed syllabus and sample question bank consisting of multiple choice questions with answers as in Annexure-I & II respectively for filling up of the post of STi Mechanical wing at DTTC/KZJ.

Fax & Phone No.0870-82400(Rly). Email: srdmedslkzj@gmail.com

Encl:- Annexure -I: Syllabus

Annexure -II: Sample question bank

Syllabus for Selection of STI - (Mechanical wing) at DTTC/KZJ

- 1. Knowledge of basic principles and terminology of Mechanical equipment of all types of Diesel locomotives, DEMUs and Diesel units maintained by Shed.
- 2. Knowledge of Alco and HHP locomotives, DEMUs and Diesel Units maintained by shed Constructional details, working and functioning. Preventive maintenance schedules, Testing & troubleshooting.
- Functioning, maintenance & testing of following equipments- Alco & HHP locomotives.
 - (i) Power Pack
 - (ii) Under Truck
 - (iii) Compressor
 - (iv) Brake systems
 - (v) Hydraulic system
 - (vi) Turbo Super Charger of various types
 - (vii) Turbo Clutch assembly
 - (viii) Heat Exchangers
 - (ix) Cylinder Heads
 - (x) FIP
 - (xi) Water Pump
 - (xii) Lube Oil Pump
 - (xiii) After Cooler
 - (xiv) RTTM/FTTM Blower
 - (xv) EPD
 - (xvi) Hot Oil Detector
 - (xvii) MUI
 - (xviii) Radiators
 - (xix) Governors
- 4. Knowledge of reading various drawings related to mechanical systems.
- 5. Knowledge of Fuel Oil system, Lube oil system, Cooling water system, Air Intake system, compressor- Maintenance, troubleshooting, rectification in Alco & HHP locomotives.
- 6. Knowledge of Latest developments like long life lube oil filters, Plate Type Lube Oil Coolers, Lube Oil Centrifuge, Air dryers, high horse power turbo super chargers, VCD, APU, DPCS etc. (applicable only those maintained by shed).
- 7. Under Truck Alco & HHP locomotives-Over hauling of bogies, Roller Bearings, checking of Axle box bearings and clearances. Checks conducted on important clearances, testing of springs, dampers, equalizing beams, compensating beams, knowledge of 'wheel gauge widening' and measurement of wheel profile. Knowledge of design features of high adhesion bogies, Tri mount cast bogies, equalizer less bogies. Knowledge of Radial bogies used in HHP

by At

locomotives (applicable only those maintained by shed) & HTSC bogies.

- 8. Safety Knowledge of various safety items fitted in the engine & locomotive.
- 9. Safety checks to be conducted on locomotive (including fire safety), before despatch.
- 10. Knowledge of Air brake system Alco & HHP locomotives- IRAB, CCB brake system (CCB 1.5 & CCB 2.0). Overhauling procedure of all air brake valves, operational procedure of multiple unit operation. Knowledge of troubleshooting in air brake system. Conducting Air brake self test & MU setup for HHP locos.
- 11. Knowledge of various tools and precision instruments required for maintenance of mechanical equipment.
 - (i) Power wrenches
 - (ii) Torque multipliers
 - (iii) Vernier calliper
 - (iv) Wheel profile gauges
 - (v) Temperature measurement gauges etc.
- 12. Knowledge of locomotive working in multiple units.
- 13. Safety precautions to be taken at work place & OHE safety precautions.
- 14. Fire prevention measures and fire fighting to be followed in the locomotive as well as in the shed.
- 15. General stores procedures Indenting Stock & Non- Stock items and stocking procedure.
- 16. Knowledge of Establishment rules like HOER, WCA, Leave rules, Pass rules, D&A rules, Conduct rules and Official Language policy.
- 17. Knowledge of various Preventive maintenance schedules (Trip, Monthly, M-4/M-12/M-24 for Alco, 30D, 90D, 180D, Y1, Y2, Y3, Y4, Y5, Y6 schedules for HHP locomotives) and important jobs done in each schedule.
- 18. Knowledge of Quality Standards (i) ISO 9001:2015, (ii) ISO 14001:2015, (iii) OHSAS 18001:2007 (iv) 5S

19. Knowledge on computer working.

SYLLABUS FOR STI (Mechanical wing) at DTTC/KZJ.

A. ACTRACTION

1. General Electricity & Electronics

Fundamentals of electricity - voltage - current - Resistance and their Measuring units & instruments to measure them

Ohms law - calculation of V, I, R in the circuit - Energy - watt - Electrical unit Electrical symbols, Kirchhoff current & voltage laws, Effects of electric current Basic properties of electrical materials - conductors - semiconductors - insulators Electronic devices such as Diodes, application of diode, transistors, thyristor, GTOs, IGBT. Handling of electronic eards

Basic principle and characteristics of DC motors and 3-ph. Induction motors.

TRD - Power supply systems

Basic knowledge on OHE power supply arrangements and equipment at Traction Substations, switching stations. (Sectioning and paralleling posts, sub sectioning Post) Remote control and communication facilities in electrified section.

Type of Neutral sections, Overlap type, section insulator type and PTFE type neutral Section.

Working of traction power control – power blocks and permit to work, protection Measures for power blocks, safety precautions in electrified section, movement of O.D.0 in electrified section, stagger of OHE, ATD, cantilever assembly parts.

2. Electric locomotives (Conventional and 3 phase):

Types of electric locos – technical data – maintenance schedules – periodicity of all Types of locos.

Working principle & maintenance of various types of relays – EP contactors – reversers – Inverses – switches – interlocks – tap changer – vacuum circuit breaker - transformer – smoothing reactor – master controller etc.

New generation equipment in loco – static converter (SIV) – microprocessor control and diagnostic system (MPFDCS) – energy cum speed monitoring systems (ESMON/SPM), common device (VCD)-working and maintenance procedures – common defects noticed and troubleshooting techniques – data downloading –

analysis of downloaded data, knowledge of AC loco feeding circuits, its parts and purpose of each equipment

Rectification of AC to DC, dc Traction Motors – current ratings, reversers- purpose of reversers. Isolation of defective traction motors – procedure. Various safety relays such as Earth Fault relay. QOP, over current relay QLM etc- functioning – Isolation

Special features & advantages of 3 phase locomotives over conventional locomotives

3 phase locomotives power and Auxiliary circuits.

Various equipment in Machine room and under frame. Traction converter (SR) – auxiliary converter (BUR)- vehicle control Unit (VCU)- transformer – MCBs – various electronic cards and their functions, detection of defects – trouble shooting tips. 3 phase Traction motors and name plate parameters. E – 70 brake systems,

4. Power and control circuits of electric locos

be

**

5. Pneumatic circuits

Knowledge of pneumatic brake system -- Equipments and their purpose -- cut Out cocks and drain -- their purpose and location. Pneumatic equipment: Air Brake system working -- handling and maintenance of A9, SA9, C2 relay valves C3W or distributor! Valves etc. Air flow measuring valve, safety valve, Air dryers, Pantograph -- trouble shooting techniques etc. E70 brake system, CCB pneumatic Brake system in 3 phase locomotives.

6. Bogies:

Bogie of different locos – construction, suspension arrangement,
Brake, wheel & axle boxes – maintenance practices – ultra sonic testing of axles –
TM shafts etc – cattle guards – CBC and its parts – maintenance practices.
Transmission of BE & TE – Function of dampers, springs, side bearer, traction
Links etc. – Motor suspension arrangement – Negative point system for co-co
Tri-mount bogie

7. TRS organization

Rolling stock organization and works carried out in different sections, organization Set up. Standard layout of loco-shed for holding 100 Locos and 200 locos suggested by RDSO.

8. Trouble shooting

Knowledge of defects on conventional & 3 phase electric AC locos – procedure of trouble shooting – Method of identifying the trouble – reason and remedy of each trouble.

9. Vocabulary and abilities

Fluency to speak in English, using appropriate technical words to express the correct meaning - knowledge of other local languages like Telugu, Hindi to educate the TRS maintenance and running staff of less literacy - Knowledge to draw electrical pneumatic circuits and mechanical diagrams on black boards preparation of important circuits. Working knowledge of computers.

bi

DTTC/KZJ/SCR

Multiple Choice Question Bank

1)	The axle loa a) 22 T b) 21.5 T	d of WDG6G le	of WDG6G locomotive b) 22.5 T d) 23 T					(0	l)
2)	Maximum T a) 544 KN	Fractive Effort of b) 54			0 KN	d) 52.1 T	(c)
3)	Maximum T a) 270 KN	ractive Effort of b) 544		c) 28	.1 T	d) 29.15 T	(ł))
4)	Gear ratio o	f WDG 4G is						(a)
	a)85:18	b) 85:16	c)77:17	d) 90):17				
5)	No of Vertical & horizontal dumpers in WDG 6G is								b)
	a) 8 &4	b) 12 &4	c) 8&6	d) 12	2& 6				
6)	Location of	CA-9						(b)
	a) Aux Cab	b) Rad Cab	c) Blower	Cab	d) E	ngine Cab			
7)		t the VCD pena to idle, Reverse l b	r-F/R b)I			ıfter Extinguish	(ning	c of) LED
8)	In WDG4G a) Lead	locomotive whi		switch sh Helper	ould be l d) Tes	-	(a)
9)	Number of I a) 4	Brake blocks in b) 8	WDG4G lo		d) 24		(c)
10) N	Max braking ef	fort(KN) in WD	G6G				(a)
a)2	285	b) 272	c)	240	d) 1	200			
11)	Loco Model	of WDG6G						(t))
	a) 710G3B	b) GEVO 16	c) GE	VO 12		d) Both A & G	С		

12)	Coolant capa	city (Liters) in WI	OG6G		(a)
	a) 1468	b) 1249	c) 1045	d) 1210	
13)	Air Dryer Cl	3 is in			(c)
	a) 1 st row	b)2 nd row	$c)3^{rd}$ row	d)4th row	
14)		and valve provided cab b) Aux Cab c)		Eng Cab	(d)
15)	Radiator fan	is getting supply fr	om		(b)
	a) Mechanical	drive b) Separa	nte Motor	c) A &B	l) None
16)	Location of l	BKS in WDG6G			(a)
	a) Operator Ca	b) Aux C	ab c) Loco left s	side d) Rad o	eab
17)	Engine shoula) 24 hrs.	ld not be cranked if b) 36 hrs. c)	it is shut down for death of the shut down for death of the shut down for the shut death of the shut down for the shut d		(d)
18)	In WDG6G	locomotive parking	g brake apply on w	heel no	(c)
	a) 1,3,5,6	b)2,5,4,8 c))1,5,8,12 d) 2,5	5,8,12	
19)	The parking a) 1:47	brake holding force b)1:57 c)	e will be sufficient) 1:37 d)1:6	=	eint (c)
20)	The parking Bra	ke can be released	by	((c)
a) Pı	ush button on E0	CP b) By manually	pulling c) Bo	th d)None	
21)	In WDG6G Ge a)Master cor	nerator Field break atrol circuit b	ter provides powe TA output c)Bot	-	ction to (a)
22) 1	Location of AES	SS switch inWDG6	G Loco		(d)
	a) CA-2	b)CA-3 c)) Rad Cab d) (CA-1	
23)	a)Cab front of b) cab back of	location of sander loor back side loor back door			(a)
24)	c) both a, b Location of b	d) cattery switch in W)Rad Cab DG6G loco		(c)
*	a)Aux Cab	b)A side		ine control panel	d)B side

25)	Ensure breaker off before opening BS (a) BCCB b)MAB c)GF breaker d)LCCB
26)	Location of Maintenance Battery Disconnect (MBD) InWDG6G (a)
	a) A-side Aux Cab b) B- side Aux Cab c) Rad Cab d) Cab-1,EC panel
27)	Location of air brake compartment (POU) inWDG6G (a)
	a)A side Rad Cab b)B side Rad Cab c) A side Aux Cab d) B side Aux Cab
28)	Sand capacity in WDG6G in lits a) 630 b) 340 c) 85 d) 105
29)	If both HVAC and Hot plate ON, result (d)
	a) HVAC fails b) Hot plate fails c)Both A & B d) !50 A breaker trips
30)	In WDP4/WDG4 Loco when lube oil temperature exceeds 124°C (d) a)Hot oil detector operates b)LLOB operates c)OSTA trips d)Both a and b
31)	In WDP4/WDG4 loco if water pressure is less a)LLOB trips b)Low water pressure button will trip c)Crank case pressure button will trip d)Both a and b
32)	In WDP4/WDG4 loco when PCS is knocked out a)MAB breaker should be recycled b)TCC breaker should be recycled c)Air drier breaker d)Both a and b
33)	In WDP4 /WDG4 loco before conducting air brake self test (a) a)Recycle MAB b)Recycle TCC1 and TCC2 c)Recycle Air drier breaker. d)Both a & b
34)	In WDP4/WDG4 loco engine should not be cranked when (b) a)Low water button is tripped b)crank case pressure button is tripped c)LLOB is in tripped d)OSTA is tripped
35)	In WDP4/WDG4 loco load meter will not respond if a) GFB trips b) AGFB trips c) Both a & b d) MAB trips
36)	In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle (c a)Isolate the defective TM b)Isolate the defective speed sensor c)Fail the loco immediately d)Isolate the defective truck

37)	In WDP4/WI should be kep a)Lead		c)Helper	P leakage test L/T s d)Test		d)		
38)	Location of E a)Nose Comp	Sattery Knife Sv partment	vitch in WDG- b)In Accesso				(d)
39)	c)In LP's cab In WDP4/WI working cont	OG4 loco while	*	Side Foot Plate r brake self test in			(c)
	a)Auto Brake Application	handle should c)Both a and l	-	N b)Direct Brake she d)LT switch in Tr		kep	t in	· Fu	111
40)	In WDP4/WI should be kep a)Lead position	ot in	opening BP (c)Test pos		1	(d)]	c Help	
41)	a)By pass sec	pping due to sector ondary filter 3 d) fail the loce	b) By pass pr				(d)
42)		fuel pump moto partment b) Rac		c) Compressor roo	om d) I	Eng	(;ine) m
43)	Control air pr a) A9 Feed va	ressure is adjust alve b)F1 s	•	c)NS 16 governor d	l) Limiti	ing	(val)
44)	a)MR safety	•	b)Inter coole	closed position r safety valve will b	low		(b)
45)	a)"Water leve	ncy switch shou el is less than 1 hot engine alar	inch b)"Flo	d 'ON' if pat is punctured d)Both a and b			(b)
46)	a)FPC is pack	kes should not b ked emergency swit		b)Working with n d)GFC is packed	ıanual tı	rans	`	d on)
47)	a)By passing			BP metallic pipe is d b) Work with FP a d)Both b and c	_	ļ	(a)
48)	In Air brake pa Work with c)Both a and		b)Wo	oe is damaged ork further bypassing ork with FP alone	the coa	ıch	(a)

49)	Sensitivity of DV is	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(a)
		0)0.3 kg/cm2 in 60 secs			
	c)0.6 kg/cm2 in 60 secs	1)0.5 kg/cm2 in 60 secs			
50)	Insensitivity of DV is		(b)
	a) 0.6 kg/cm2 in 6 secs	o) 0.3 kg/cm2 in 60 secs			
	c) 0.6 kg/cm2 in 60 secs	d) 0.5 kg/cm2 in 60 secs			
7 1\					
51)	In M.U operation in Air brake loco, co	onjunction working in leading	,	1	,
	loco will takes place through	A 1 differential valve d) E1	(b)
	a)28 VB b)C3W DV c	c) A1 differential valve d) F1	seie	Ctor	vaive
50 \	16.40		,		,
52)	If A9 coc is closed in both control star		(a)
		b)BP will destroy only in emergency	y		
	c)Loco brakes will not release	d)BP will not destroy			
53)	In MU operation during A9 application	n, trail loco brakes get applied thro	ıgh((b)
	a)C3W DV b)F1 selector c)Additi	onal C2 relay valve d)Both a & c.			
54)	While working an air brake train if eng	pine shuts down on run	(c)
/	a)The train brakes will apply automatic				,
	b)Apply A9 and release after train con	-			
	c) Keep A9 in Emergency position unt	-			
	d)Apply loco brakes alone				
55)	I TOAD 11 1	1' (1 1 1 1 1 1	1	1	/ 1 ·
55)	In IRAB-1 brake system conjunction v	_		_	
	a)28 VB valve b)C3WDV c)A1 dif	ferential valve d)VA1B cont	101	vaiv	Е
56)	Le MII turilina la ca if 2/4" and along it	a brant in annu maritian	(J	`
56)	In MU trailing loco if 3/4" coc alone is		(d)
	a)BP will not destroy b)BP wi c)Loco brakes will not apply d)BP wi	•			
	c)Loco brakes will not apply d)BF wi	ii destroy only in emergency			
57)	If SA9 COC is closed in working cont	rol stand	(a)
	a) loco brakes will not apply b	o) conjunction brake will not apply			
	c) loco brakes will apply	l)Bp will not create			
58)	Location of C3W DV in IRAB brake s	system is	(b)
,		rtment c) Under truck d) A-control s	stan		
59)	If brake system coc is kept in closed p	osition	(c)
,		p)FP pressure will not create	,	•	,
		d)MR pressure will not indicate			
60)		_	1	h \	
60)	In IRAB1 brake system conjunction by	rake pressure is	(b)	

	a) 1.6kg/cm2 b)1.8kg/cm2 c)Both a&b d)None			
61)	In ALCO locos turbo super charger, turbine is rotated by a)Gears b)Motor c)Exhaust gas d)Clutch	(c)
62)	Main reservoir safety valve is set atKG/cm2 a)10.5 b)8 c)9 d)9.5	(a)
63)	Bogie configuration of WDG4 Locomotive is a) CO-CO b) Bo1 Bo 1 c)BO-BO d)BU-BU	(a)
64)	Axle Load of WDG4 Locomotive is a) 20.5 T b)22.5T c)25T d)19.5T	(a)
65)	Axle Load of WDP4 Locomotive is a) 20.5 T b)22.5T c)25T d)19.5T	(d)
66)	In WDG4 loco Hand brake is applied on Wheel Nosa) L4,L5 b)L2,R2 c) R4,R5 d)R2,	(R3	c)
67)	Primary stage suspension in WDG4 is accomplished by a)Shock absorber b)helical coil spring c)Damper d)Load pads	(b)
68)	Secondary stage suspension is accomplished bya)Load pads b)Damper c)rubber compression springs d)helical coil	(spr	a ing)
69)	To avoid separation of the truck/bogie assembly from the locomotive in conderailment and to provide a means of lifting the truck/bogie assembly alo body is accomplished by a)Hooks b)Safety links c)Lateral shock absorber d)Springs			
70)	In WDG4 soft primary suspension is made up of No of coil journal a)24 b)6 c)8 d)12	spri	ngs	(d)
71)	The un sprung weight of the locomotive car body is transferred directly to frame through a)Four Helical springs b)four rubber compression spring as c)Four Shock absorber d)Four coil springs	(b)
72)	Traction Motor gear ratio for GT46MAC is a)17:77 b)18:90 c)17:90 d)16:90	(c)
73)	WDG4 Loco is provided with type of bogie a) three-axle bolster-less bogie b)Tri mount c) Fabricated d)Fle	(exi c	a oil)

74)	Reduction in BP pressure causes						2)	
	a) Brakes release	e	b)Brakes	slow releas	e			
	c) Brakes applic	ation	d)MR pro	essure incre	asing			
75)	How many kind	s of Brakes a	re provide	d on Diesel	locomotive?	(8	a)	
	a) 5 b) 10	c) 11	d) 9				
76)	"is	the main pov	wer supply	of CCB for	the CCB system."	' (b)	
	a) DCU	b)VCI	J c)	PCU	d)DVR			
77)	In WDG4 loco	nax. Brake c	ylinder pre	essure is	_Kg/Cm2	(d)		
	a)3.8 b)3.2	c)2.2	d)5.2				
78)	CCB fault code	for Brake Pi	e Leakage	e Failure		(c)	
	a) 6A b)6C	c)6B	d)6D				
79)	Emergency brak	e application	is accomp	olished by_	valve provided a	at the low	er left of	
	each console					(b) (d) (c) At the lower left of (a) Ave brake (d) eservoir) (a) essure (c) MR pressure veen (b) d)FP pressure relay initiates a (a) ant of the end in a train. When		
	a)D 1 emergency			,	lependent brake va			
	c)Direct Brake v	alve		d)con	npanion emergency	⁷ brake		
80)	EPA 1 is a print	ed circuit boa	ard(PCB)	Controls		((d)	
	a)Brake Cylinde			BP pressur	re	`	,	
	c)Direct brake c		d)	Auto brake	application(EQ Re	eservoir)		
81)	EPA 2 is a print	ed circuit boa	ard(PCB)	Controls		(a)	
	a)Brake Cylinde	er b)BP p	pressure c	EQ. Reser	voir d)MR pre	essure		
82)	EPA 3 is a print	ed circuit boa	ard(PCB)	Controls		(c)	
	a)Brake Cylinde				ake controls d)	MR press	sure	
83)	MRPT-Main Re	servoir Press	sure Transo	ducer reads	pressure betw	veen (b)	
	a)MR1&MR2	b)MR1 p	ressure	c)MR	2 pressure	d)Fl	P pressure	
84)	•	-		-	em whenever	•		
	safety control or	•			1)	(;	a)	
	a)PCR b)DMR	c)	WSR	d)SR			
85)	_				rake rack at the fro			
					ve being hauled dea			
			ead locomo	otive, the pro	essure regulator Ch	narges (c)	
	a)MR2 to 5kg/ci							
	b)Brake cylinde		tha broka -	nine				
	c) MR2 at 1.76k	g/cmz from	me orake p	npe				

86)	The EM2000 a)BPT	reads main res b)BCT	servoir air pre c)ERT	ssure from d)MRPT	transducer.	(d)
87)	What is the ca	ode for Brake b)6A	pipe control fa c)10A	nilure in self test d)22A	?	(b)
88)	What is the coa)6B	ode for Brake b)10B	pipe leakage f c)6F	ailure in self test d)6S	2?	(a)
89)	a)Provides pr	function of KE neumatic back ergency applic	Up	b) Creation of			a n of) FP
90)	3.5kg/cm2 as a)High horse	in convention	al locos? b)Speed is a	m2 brake cylinde more c)A s	er pressure is us	(c)
91)	After cooler of a)Control Air d)Booster Air	Pressure	_	is also called as Control Air Pres	sure c)HS	(4 pre) re
92)	N 1 Reducing a)Radiator ro	g valve/Limitir om b) Co	=	ated in m c)Nose comp	partment d)Rea	(ar co	c mpa) artment
93)				part of the ingc)Turbine Ca		(wer	a Cas) ing
94)	Where the boa) Air Box	oster air pressi b) Manifold	ure stored in T c) T	`wo stroke engin ank	e? d) Mi	(R	a)
95)	· ·	g of MV-CC /unloading of c compressor		, ,	g of compressor		c r)
96)	Loading and a)MVCC	unloading of c b)EP	-	controlled by GCP	in WDG4/I d)None of th)
97)	used to removactuated, and	ve condensate gets operated ssor is unloadi	from the main each time the ng. b)W	ed automatic dr reservoirs. The ————————————————————————————————————	valves are norr ke applied	nally (These are

d) limiting brake cylinder pressure to 1.76kg/cm2

98)		g, allow a mining other engine sta		minutes for	r starter motor		oling c	
	a)20	b)10	c)2	d)5		`		,
99)		•		with starting m d) 20 seconds	otors in HHP	(d)
100)	a)The amount	represents t of speed of wheel slip th	b)The	amount of load	c)The amount	`) que
101)	Capacity of L a)1457	•	of WDP4 class	ss Locomotive is d)1150	liters	(a)
102)	8th notch spe a)1050	eed of WDP4 E b)1000	ngine c)954	1) 0 4 5		(c)
103)	a)1105 mm to	t of WDP1 o 1000 mm 5 mm to 1030 r	b)1105 mm to	o 1030 mm	c)1105 mm to	(109	b 90 m) nm
104)	Chemical add a) Indion 134	led in loco cools 5 b) Ind		c) Indion 1245	d) HP _l	`) cool
105)	FTTM driven a) Electric mo		S.	c) Gear	d)Hydraulic pr	`	c ure)
106)	Gear ratio of a)18:65	WDG3A is: b)17:7	7	c)18:90	d)22:80))	a)
107)	How many N	o. of batteries in b)10	n WDP4 Locoi c)4	motive d)6		(b)
108)	HP of WDM3 a) 1400		c)2400	0 d)3100		(d)
109)	Latest modified	ed lube oil cool b) plat		type in WDN c) Paper	M3A d)Roll	(b)
110)	Low idle RPM a) 210	M of WDP4 eng b)200	gine is	d)215		(b)
111)	Lube Oil capa	acity of Compre b) 8	essor in WDP4 c) 10	is	liters	(c)

112)	Maximum co	ntinuous curre	nt of Traction	Alternator is_	A	mperes	(b)	
	a)1200	b)1250	c)1150	d)1050						
113)	Maximum sp	eed of WDP4	class Loco mo	tive is k	mph		(c)	
	a)140	b)150	c)160	d)180	-					
114)	Maximum red	ctified output v	oltage of Aux	iliary Alterna	tor is	volts	(a)	
	A) 74	b)75	c)72	d)70						
115)	Maximum red	ctified output v	oltage of Con	npanion Alteri	nator is	v	olts	(b)
	a) 250	b)230	c)200	d)110						
116)	Maximum red	ctified output v	oltage of Trac	ction Alternate	or is	volts	s (d)	
	a)2400	b)2500	c)2700	d)2600						
117)	Minimum con	ntinuous speed	at Maximum	tractive effort	of WDP4	Locomo	tive	is		
		kmph					(d)	
	a)15.5	b)20	c)10.0	d)22.5						
118)	N1 reducing	valve/Limiting	is used to con	itrol	pressure		(c)	
	a)BP pressure	e b)FP pressu	re c)	Control Air Pr	essure		d)B	C I	ores	ssure
119)	HP of WDP4	Loco motive	is	HP			(a)	
	a)4500	b)3900	c)3950	d)3939						
120)	Normal idle F	RPM of WDP4	Engine is				(b)	
	a)290	b)269	c)250	d)296						
121)	Rail Guard he	eight of WDP1	is				(d)	
	A)120mm	b)90mm	c)30mm	d)101mm						
122)	The coupling	between right	angle gear bo	x and radiator	fan is		(a)	
	a) Universa	l Coupling b)	love-joy coup	oling c) CBC	coupling	d) Can	ı gea	ar		
123)	In Alco loco	Turbo supercha	arger is driven	by			(b)	
	a)Cam gear	b)Exhaust ga	sses c)Cr	ank shaft	d)AC	motor				
124)	Type of Wate	er Pump in WD)P4				(c)	
ŕ		oump b)Air		c)Centrifu	gal Pump	d)Gear	pur	np		
125)	WDP1 loco tr	ransmission is					(b)	
,	a) DC	b)Electrical		echanical	d)Both	ı B&C	`			
126)	WDP4 OSTA	tripping rpm	is:				(c)	
,	a) 1155 ± 20	b) 1125 ± 2		± 20	d) 110	0 ± 20	`			
127)	What is the m	ninimum cleara	ance required f	for wheel to b	rake block	during r	elea	se (a)
,	a)10mm	b)8mm	с)6тт	d)4mm		υ			`	,

128)	What is the piston travel of brake cylinder in WDM3A loco? (c) a)60 to 85 cm b)85 to 95 cm c) 95 to 105 cm d)90 to 100 cm
129)	In WDG3A locomotives 3/4" coc (BP coc) is located in/at (a) a)Nose compartment b)Driver cab c)Short hood control stand d)None of the above
130)	One of the following is the equipment in Nose compartment (c) a)MR1 b)MR2 c)Control air pressure reservoir d)All the
above	
131)	"D" solenoid in the Governor is also called (a) a) Shutdown solenoid b) Cranking solenoid c)Tripping solenoid d)Safety solenoid
132)	circuit breaker establishes local control with power from Locomotive battery or Auxiliary generator to operate heavy duty switch gear, magnet valves, contactor, blower and miscellaneous relays (d) a)AGFB b)MCB c)GF d) Local control
133)	In WDG4 loco, Current rating of Starting fuse (d) a)600 amps b)1000 amps c)500 amps d)800 amps
134)	How many position does PRIME/START switch has (a) a)3 b)2 c)1 d)4
135)	if the LR % is, EM2000 is reducing power output because the engine's capabilities are less than the load being requested. (b) a)less than 200 b)less than 100 c)More than 100 d)less than 500
136)	Maximum starting effort of WDG4 is (b) a)120T b) 54T c)22T d)44T B
137)	Purpose of BWR (brake warning relay) is to a)To cut out Dynamic brake in case of Over current b)Protect Dynamic brake grid c)Ensure working of Dyn braking d)All the above
138)	Purpose of TEL (Tractive effort limit)Relay in WDG4 Locos is a)To limit tractive effort to 200KN or 20T b)To limit tractive effort to 250KN or 25T c)To limit tractive effort to 150KN or 15T d)To limit tractive effort to 294KN or 29.4T
139)	Shutting down of all diesel engines in a consist is accomplished relay(c) a)DMR b)GCR c)SDR d)FLR
140)	The functioning of VCU is (b) a)to reduces 73.5 V DC to filtered 25 V DC to CRU b)to reduces 73.5 V DC to

	filtered 24 V DC to CRU c)to reduces 72 V DC to filtered 25 V DC to C reduces 110 V DC to filtered 25 V DC to CRU	RU		d)to
141)	The main functions of EM2000 computer is a) Logic b) Excitation c) Display d)All of the above	(d)
142)	The part of the ground relay system and connected to the companion alter as well as the AC input to FCF (Firing Control Feedback) module is protected.	cted		_
	a)AC control b) Companion Alternator output c)Fan circuits d)Ra	dar	circ	uits
143)	In WDG4 loco Tractive effort is transferred from to TM to wheel is throug a)Load pads b)side bearers c)coil springs d)Traction rods	;h _	_	(d)
144)	How Crank case vacuum is maintained in WDG4/WDP4 engines(EMD)? a)Blower b)Crank case exhauster c) Eductor d)No vacuum			
145)	Fuel oil primary filter is located at a)Generator Room b)Engine room c)Radiator Room d)Equi	`	d ent 1	
146)	If the pressure across the primary filter element exceeds, a bypass value, bypassing the primary fuel filter. a)10 PSI b)20PSI c)30PSI d)40PSI		beg c	
147)	When fuel oil pressure at the spin-on filters input risesPSI, the spin bypass valve opens fully and fuel bypasses the engine and return to fuel tate a)50 PSI b)40PSI c)80PSI d)70PSI			
148)	In ALCO Locos Fuel oil crossover flexible pipe is located in a)Radiator room b)Nose compartment c)Power takeoff end d)Free	(end	c)
149)	What is the Fuel oil tank capacity in WDP1 locomotive in liters a)4000 b)5000 c)3000 d)2000	(c)
150)	Fuel pump motor is not working though the all circuit breakers are switched	d O	N, 1	the
	a)ERF not closed b)R1 and R2 not picked up c) GFC not picked up d)FPC not picked up	(d)
151)	If white smoke is emitting from exhaust chimney, what could be the reason a) Water mixed with fuel oil b) Governor oil mixed with fuel oil c) Lube oil mixed with fuel oil d) None of these	1? (a)
152)	What is the Fuel oil tank capacity in WDP4D locomotive in litres. a)6000 b)5000 c)3000 d)5500	(b)

153)	How many Po a)7	ower Contactors b)9	s are available : c)8	in WDG4 Locomotive? d)0	(d)
154)	Numbe	er of brake bloc b)24	ks are provided	d on WDM2 d)22	(b)
155)	ŕ	,	,	WDM2 locomotive d)12	(b)
156)	WDG4 Engin	,	c)269	d)360	(c)
157)	What is the m	,	ssible speed of	(designed for) WDG4 locom	otiv	es	(b)
158)	H ow many L a) 5	ube oil pumps a	available in EM c) 9	ID engine? d) 4	(d)
159)		s lube oil filter Room b)Equ		l at c)Engine roomd)Radiator Ro	(oom	b)
160)	LOPS setting a)25-29 psi	of WDG4 loco b)8-12 psi		d)20- 30PSI	(a)
161)	LOPS setting a)10 - 12 PSI	of WDG4 loco b)8-12 psi	in idle is c)12-20 PSI	d)20- 30PSI	(b)
162)	Pre lubrication more thana) 48	-	an engine that c)12	has been shut down for d)8	(a)
163)	The purpose of a) To lubricate d)To lubricate	e the Turbo	•	Locomotive before cranking is the residual heatc)To lubricate	•	c bo b	_
164)	-	-	_	_minutes after engine is shutd ninutes prior to engine shut do d)45			engine b)
165)	Lube oil dipst	ick gauge of W b)380	DG3A is having c)600	ng liters capacity.	(c)
166)	Number	er of brake bloc b)12	ks are provided c)32	d on WDG4 d)22	(b)
167)	What is the La)760	ube oil capacit b)910	y (in liters) in V c)1100	WDG4 locomotives? d)1457	(d)

168)	In Alco Locos Lube oil Cooler is located in	(a)
	a)Radiator room b) Compressor room c) Generator room	d)Under t	ruck	
169)	Lube oil dip stick gauge capacity in WDG4 locos isliters. a)400 b)550 c) 625 d)700	(c)
170)	In ALCO Locos Lube oil Filter drum is located in	(d)
	a)Nose compartment b)Generator room c)Engine block	d)Radiato	r ro	om
171)	What is the Safety Device provided in the Lube oil system? a) GFOLR b) OSTA c) LLOB	d)LWS	c)
172)	When LLOB trips, the engine will	(b)
,	a) Raise b) Shutdown c) Comes to Idle	d) Hunting		,
173)	Electro Pneumatic Governor (EPG) is located in	(d)
ŕ	a) Compressor room b)Radiator room c)Nose compartment	d)Rear co	mpa	rtment
174)	From where the control air pressure will get air pressure a)MR2 b)MR1 c)BKTs d)J filter	(b)
175)	Main Reservoir (compressed air pressure) Unloading will takes pla a)8 b)9 c)10 d)11	ce at_kg/c	m2	(c)
176)	MR Cooling coils in WDG4 is located at	(c)
	a)Under truck b)Engine block c)Radiator room	d)Com	pres	ssor
room				
177)	MR safety valve is set at Kg/Cm2 pressure.	(c)
	a) 8 b)9 c)10.5 d)9.5			
178)	The compressed air enters to MR1 tank through	()
	a)MR Safety valve b)MR2 c) Cooling Coil d)3 / 4	" cutout co	ck	
179)	Manual sander will be working when the unit speed is up to	(b)
	a)30.6kmph b)19.5kmph c)30kmph d)25kmph			
180)	Manual Sanding is cutout when the locomotive is operating in pow	er/wheel c	reep	mode,
	and moving at speeds above	(c)
	a)30kmph b)10kmph c)19.5 km/h d)15kmph			
181)	Maximum Stall Tractive Effort of WDG4 Locomotive is	(a)
	a) 540KN b) 400KN c) 200KN d) 250KN			

182)		o, which is loca roximately.	ated on th	ne wate	er tank filler	pipe, opens	(d)
	a)25 PSI	•	PSI	c)20 P	SI	d)7 PSI	`		ŕ
183)	Cooling Water a)900	r capacity in W b)910	DM2 loc c)1300		ve is d)1210	liters.	(d)
184)	How many wa a)1	ater pumps ava b)4	ilable in c)3	EMD l	ocomotive d)2	engine?	(d)
185)	If the coolant throttle six lim a) 95	nit.	eaches c) 85	deg	ree C, the lo	ocomotive will g	go to	a)
186)	,	gine, the Water	,		,		(c)
187)		ed at essories Room			om c) Radi	ator Room d) I	(Equipn	a nent) rake
188)	a)less than -15 greater than 15 d)less than -55	55 degrees C or 50 degrees C 5 degrees C or	greater c)more greater th	than 15 than -5 han 250	50 degrees (55 degrees () degrees C		-55 do n 150 d	egre legre	ees C
189)	from a)79° C to 85°	•			_	ure within a pre	(a)
190)	_	continuously f and work furth c) Do fast p	ner	b) Fai	l the loco d	uly observing the) vel
191)	What is the inca)LED	dication for blo b)Buzzer	own radia	ator far	fuse?	or will project o	() sage
192)	Hot engine ala a) 60	arm (HEA) wi b) 70	ll come a	ıt	_°Cin WD0 d) 80	G3A locos	(c)
193)	During one of a) Continuous	the following s 8th notch working not working	occasion rking	b) Exc	cess load	n indication wi	ll get ((c)
194)	*	cted to side return hea t side return he			ter expansion	on tank	(b)

will be switched on automatically in loco, during accidents	`)
a) Head light b) Auto flasher light c) Marker light d) Do	oom l	ight	-
•	em. (c)
What is the color code for the BP pressure pipe?	(c)
a) Black b) Red c) Green d)Yellow			
DV isolating handle inposition indicates DV is in isolated position a) Vertical b) Horizontal c) 60 degrees d) None of these	on. (b)
DV isolating handle inposition indicates DV is in working positional a) Horizontal b) Vertical c) 45 degrees d) None of these	n. (b)
_		_	
			,
c) Work further with 50 kmph d) Ask for the relief engine			
The speed restriction that has to be observed by a LP when headlight of engine fails on BG is kmph. a) 50kmph b) 30kmph c) 40kmph d) MPS	(c)
Whenever stopped on gradient for any reason it is essential to apply the brakes	(c)
) SA.9 b) A.9 c) A9 & SA9 d) Hand brake			
How much pressure should be ensured in the engine and BV before star	ring		
air brake train?	(c)
a) 6cm2kg,4.9 kg/cm2 b) 5.2kg/cm2, 4.7 kg/cm2 c) 5kgcm2, 4.8 kg/cm2 d) 4.8kg/cm2, 5kg/cm2			
For any reason, a train is stalled on gradient, the hand brakes of Locomo	tive		
and formation shall be applied if stoppage is more than a) 5 minutes b) 10 minutes c) 20 minutes d) none	(d)
How the notching up is to be done in Undulating terrain? a) Repeatedly changing the notches b) without notching up c)Constant notches to be maintained D)none of the above	(c)
How would you work the train, if the loco wheel develops skid mark more than 50 mm length in section?	(b)
	a) Head light b) Auto flasher light c) Marker light d) De FP pressure in loco shall be and in BV kg/Sq.a a) 5.0, 4.8 b) 5.0, 4.7 c) 6.0, 5.8 d) 6.0, 5.7 What is the color code for the BP pressure pipe? a) Black b) Red c) Green d)Yellow DV isolating handle in position indicates DV is in isolated position a) Vertical b) Horizontal c) 60 degrees d) None of these DV isolating handle in position indicates DV is in working position a) Horizontal b) Vertical c) 45 degrees d) None of these When a Train engine is disabled in mid section, Driver should ask for reexpects that the train engine cannot be put in working order within may be an expect that the train engine cannot be put in working order within may be an expect that the train engine cannot be put in working order within may b) Horizontal b) Work the train by reducing 10% specifically by the specific color of the above when the speedometer of a running train engine becomes defective a) Fail the locomotive b) Work the train by reducing 10% specific c) Work further with 50 kmph d) Ask for the relief engine fails on BG is kmph. a) 50kmph b) 30kmph c) 40kmph d) MPS Whenever stopped on gradient for any reason it is essential to apply the kmph. a) 50kmph b) 30kmph c) 40kmph d) MPS Whenever stopped on gradient for any reason it is essential to apply the kmph. a) 6cm2kg,4.9 kg/cm2 b) 5.2kg/cm2, 4.7 kg/cm2 c) 5kgcm2, 4.8 kg/cm2 b) 5.2kg/cm2, 5kg/cm2. For any reason, a train is stalled on gradient, the hand brakes of Locomo and formation shall be applied if stoppage is more than a) 5 minutes b) 10 minutes c) 20 minutes d) none How the notching up is to be done in Undulating terrain? a) Repeatedly changing the notches b) without notching up c)Constant notches to be maintained D) none of the above	a) Head light b) Auto flasher light c) Marker light d) Doom I FP pressure in loco shall be and in BV kg/Sq.cm. (a) 5.0, 4.8 b) 5.0, 4.7 c) 6.0, 5.8 d) 6.0, 5.7 What is the color code for the BP pressure pipe? (a) Black b) Red c) Green d)Yellow DV isolating handle in position indicates DV is in isolated position. (a) Vertical b) Horizontal c) 60 degrees d) None of these DV isolating handle in position indicates DV is in working position. (a) Horizontal b) Vertical c) 45 degrees d) None of these When a Train engine is disabled in mid section, Driver should ask for relief erexpects that the train engine cannot be put in working order withinminute a) 05 b) 10 c) 15 d) None of the above When the speedometer of a running train engine becomes defective (a) Fail the locomotive b) Work the train by reducing 10% speed freely work further with 50 kmph d) Ask for the relief engine The speed restriction that has to be observed by a LP when headlight of engine fails on BG is kmph. (a) 50kmph b) 30kmph c) 40kmph d) MPS Whenever stopped on gradient for any reason it is essential to apply the brakes () SA.9 b) A.9 c) A9 & SA9 d) Hand brake How much pressure should be ensured in the engine and BV before staring air brake train? (a) 6cm2kg.4.9 kg/cm2 b) 5.2kg/cm2, 4.7 kg/cm2 c) 5kgcm2, 4.8 kg/cm2 d) 4.8kg/cm2, 5kg/cm2 For any reason, a train is stalled on gradient, the hand brakes of Locomotive and formation shall be applied if stoppage is more than (a) 5 minutes b) 10 minutes c) 20 minutes d) none How the notching up is to be done in Undulating terrain? (a) Repeatedly changing the notches b) without notching up c)Constant notches to be maintained D) none of the above	a) Head light b) Auto flasher light c) Marker light d) Doom light FP pressure in loco shall be and in BV kg/Sq.cm. (c a) 5.0, 4.8 b) 5.0, 4.7 c) 6.0, 5.8 d) 6.0, 5.7 What is the color code for the BP pressure pipe? (c a) Black b) Red c) Green d)Yellow DV isolating handle in position indicates DV is in isolated position. (b a) Vertical b) Horizontal c) 60 degrees d) None of these DV isolating handle in position indicates DV is in working position. (b a) Horizontal b) Vertical c) 45 degrees d) None of these When a Train engine is disabled in mid section, Driver should ask for relief engine expects that the train engine cannot be put in working order withinminutes. a) 05 b) 10 c) 15 d) None of the above When the speedometer of a running train engine becomes defective (b a) Fail the locomotive b) Work the train by reducing 10% speed from c) Work further with 50 kmph d) Ask for the relief engine The speed restriction that has to be observed by a LP when headlight of engine fails on BG is kmph. (c a) 50kmph b) 30kmph c) 40kmph d) MPS Whenever stopped on gradient for any reason it is essential to apply the brakes (c c) SA.9 b) A.9 c) A9 & SA9 d) Hand brake How much pressure should be ensured in the engine and BV before staring air brake train? (c c) 5kgcm2, 4.8 kg/cm2 b) 5.2kg/cm2, 4.7 kg/cm2 c) 5kgcm2, 4.8 kg/cm2 d) 4.8kg/cm2, 5kg/cm2 For any reason, a train is stalled on gradient, the hand brakes of Locomotive and formation shall be applied if stoppage is more than (d a) 5 minutes b) 10 minutes c) 20 minutes d) none How the notching up is to be done in Undulating terrain? (c a) Repeatedly changing the notches b) without notching up c)Constant notches to be maintained D) none of the above

	a) Fail the loco at site b) Clear the section with less than 30 KMPH & inform PRCc) Work with 40 KMPHd) None
208)	Identify the problem in brake power? (d) a)A9 coc in both control stand in open condition b)MU2B in Lead position & 3/4" coc in open in Rear loco c)For loaded rake the Load/empty device handle in empty direction d)All the above
209)	If MU locos get parted through which valve brake will apply in rear loco? (c) a) SA-9 b)A-9 c) F1 Selector d) N1 Reducing
210)	The effective Brake Power in case of Mail/Express at the originating station should be% and enroute can be not less than% (c) a) 100, 85 b) 100, 100 c) 100, 90 D) 100, 95
211)	The following shall not be used for extinguishing fires on electrical equipment. (c) a) Dry chemical powder b) foam c) water d)none of these
212)	What acts LP/ALP should not do while approaching /passing signals /stations to avoid SPAD? (d) a)Calling out signals b) Taking exchange signals with station staff/ Guard c) Writing Log book, memo books, packing their belongings and attending CUG/walkie talkie d) b & c
213)	what are the present VCD cyclic timings? a)60, 8 and 8 seconds b)60,17 and 17 seconds d)65,8 and 8 seconds A (a) c)170, 17 and 17 seconds d)65,8 and 8 seconds
214)	What combination of trains are Permitted for running long haul train? (d) a)Empty/Empty b)loaded/Empty c)Loaded/Loaded d)All the above
215)	What condition is to be observed in loco by LP to avoid stalling? (c) a)COC's b)Lube oil pressure c)Load meter over shooting d)Conjunctional brake working
216)	What is the position of ¾ coc's in both loco while carrying dead locos? (b) a)close/close b)open/close c)Both open d)none of the above
217)	What is the position of C3W/DV in both locos while carrying dead loco? (a) a)open/open b)close/open c)Both close d)open/close
218)	What is the position of MU2B & BP isolation COC in banker loco? (a) a)Lead & close b)Trail & open c)Trail & close d)None

219)	What is to be done by LP whenever the train engine is changed? (d) a)Air brake continuity b)feel test c)Brake power d)All
220)	What is to done by LP, if he feels the brake power of his train is poor? (d) a)Re validation of BPC b)Air continuity c)Stop the train at next station & give all concern message d)Stop the train next station, check the brake power % age & act accordingly
221)	What precaution should be taken for conducting Air brake self test in GM locos? (d) a) Secure loco b)Secure formation c)Detach loco and secure d)Secure both, close BP & FP COC of loco towards formation.
222)	What should be done first for changing console in WDG 4 / WDP 4 locos? (a) a)Disable working control stand & enable non working control stand b)Enable working control stand & disable non working control stand c)As per convenience d)None of the above
223)	What should be the position of BP & FP angle cocks in an DV isolated coach/wagon of an air brake train? (a) a) Open b)Close c)None d)BP close & FP open
224)	What should be the position of Lead /Trail switch in trailing loco of WDG4/WDP4 MU? (a) Trail b) Lead (b) Both (c) Both (d) Off
225)	What Test should be done by Crew for Passenger Train detained more than 30 minutes? (b) a) Air brake Self Test b) Air Continuity test c)Brake feel test d)Brake Power test.
226)	What will happen when isolation handles of 20 no. DVs in a formation of 58wagons are in isolation condition? a)No change in brake power b)load will be reduced c)Poor brake power d)increase the brake power
227)	When flasher light become defective speed of the train shall not exceed(d) a) 20Kmph b) 30Kmph c) 40kmph d) fail the loco
228)	Which coc's should be ensured in open condition in both control stand before perform shunting in WDM2? (b) a) A-9 b) SA-9 c) Both A9 & SA 9 d)None of the above

229)	While carrying dead locoto be ensured A)Conjunctional brake application in rear loco b)conjunctional brake application in leading loco c)Conjunctional brake in both loco's d)All the above
230)	While taken over charge of Loco, if Flasher light glows but does not flash/blink, what action would you take? (a) a) Fail the loco b) Will work to nearest shed c) Inform PRC & work further. d) Work normally
231)	During engine starting if engine is cranking, Firing, Over speeding, OSTA Tripping and Engine shutting down the reason may be (b) a)Main Generator failure b) Taco Generator failure c)Exciter Generator failure d) Auxiliary Generator failure
232)	A goods train having 56 wagons, the FP pressure in engine shall be and in BV kg/sq.cm. (d) a)5.0, 4.6 b)5.0, 4.8 c)4.8, 5.0 d)6.0, 5.8
233)	A goods train having 58 wagons, the BP pressure in loco shall beand in BV kg/Sq.cm. (d) a)5.0, 4.5 b)6.0, 5.8 c)5.0, 4.0 d)5.0, 4.7
234)	A Railway servant directly connected with train passing duties shall not consume alcoholic drinks withinhours before commencement of duty. (c) a)2 b)5 c)8 d)10
235)	Loco pilot should exchange alright signals with the station staff to ensure(d) a)To make the station staff alert b)To tell the station staff that train crew are alert c)To ensure the availability of station staff d)To ensure the train passing safely
236)	By applying A-9 formation brakes are not applying, Reason might be (a) a)A-9 COC in working control stand is in closed condition b)Bogie COCs are in closed condition c)Train running at excess speed d)Last vehicle rear BP angle cock is in open condition
237)	On run if Air Flow Indictor overshoots with jerk indicates (d) a)Air brake failure b)Loco failure c)Air flow indicator defective d)Train Parting
238)	While working LE's Loco Pilot should to Stop the Locomotive. (b) a) apply A-9 brake b) apply SA-9 and Dynamic Brakes c) apply Hand brakes d) close the throttle to zero.
239)	Locos provided with Cast Iron brake blocks requiresthan the Locos provided with Composite brake blocks (a)

	a)More braking distance b)Less braking distance c)frequent change of brake blocks d)BC pressure 3.8 kg/cm2	;
240)	If train stopped in mid section on account of Loco Failure Loco pilot should doimmediately (b)	
	a)Inform TLC/PCOR b)Put on Flasher Light, Apply A-9,SA-9, wooden wedges and secure formation. c)Ask for relief Loco d)Attend the Locomotive	
241)	Revised VCD cyclic timings are (a) a)60, 8 and 8 seconds b) 60,17 and 17 seconds d)65,8 and 8 seconds (a) c)170, 17 and 17 seconds	
242)	While working LE's Loco pilot should check and ensure before starting.(c) a)Head light b)Flasher Light c)Brake Power physically and not moving of Loup to 2nd Notch on application of SA-9 d)Marker Lights	
243)	Use of Dynamic Brake is To raise the engine RPM (a) a)To control the train and to maintain constant speed at PSR, TSR and Loop lines b)To nullify the conjunctional brakes c)To stop the train d) none	
244)	When LE loco brakes are not applying check a)SA9 COC b)MU2B c)BC COC & Pressure d)All	
245)	When loco working as banker the position of MU2B & BP isolation COC (a) a)Lead & close b)Trail & open c)All d)None	
246)	Immediate action when BP is not destroying with A9 during controlling of train(b a)Open A9 COC in Non-working cont. standb)Apply D1 Emergency c)Change the Control stand d)Adjust BP pressure)
247)	Important test should be done before leaving station for a train (c) a)Brake feel test b)Brake power test c)Air continuity test d)All	
248)	What test must be done by LP while leaving station with what speed (a) a)Brake feel test, 15 KMPH b)Brake power test, MPS c)Working of DB, 15 KMPd)None	PH
249)	If an Air Brake train stopped on a gradient of 1/400 & above due to any reason, which brakes should be apply. (c) a)SA 9 only b)A9 only c)SA 9 & A 9 d)Hand brake	
250)	After detaching Loco from formation which safety aspect should be checked before working LE. a)Continuity test b)Traction test c)Loco Brake power test d)leakage test	
251)	While TOC of Loco, If Flasher light glows but does no blink, what action would you take. (a) a) Fail the loco b)Will work to nearest shed c)Change the bulb d)Work normally	

252)	How would you work the train if the loco wheel develops skid mark more than 50 mm between section? (c)								
	a) Fail the loco at site b) Work with 40 KMPH c) Clear section below 30 KMPH d) None								
253)	allowed for on-ward journey (b)								
254)	a) Without check b) After certified by TXR c)With 10% less speed d)80 KM What immediate action would you take on noticing sudden drop of BP pressure on (c)								
	a) Stop the trainb) Contact Guard on VHFc) Switch on Flasher lightd)Inform PRC								
255)	When Head light becomes defective speed of the train shall not exceed? (c) a) 20 kmph b) 30 kmph c) 40 kmph d) 50 kmph								
256)	What should be done by LP for releasing proportional loco brakes during A9 application? (c) a) Pressing BKIV foot pedal b) Application of DB c) Either A or B d) Nor	ıe							
257)	The lead /Trail switch position in console of WDG4/WDP4 working as MU trailing is (a) Trail b) Lead c) Both d) None								
258)	If BP & FP pipes are wrongly connected will fail. (b) a) Loco is failed b) Formation Brakes c) Loco brakes d)All								
259)	What action should be taken by LP when loco fails on run in section? (c) a) Clear section and stop b) Trouble shoot first c) Stop & secure first d) Inform								
260)	In case of Brake binding in air brake wagon, what additional action would you take than releasing of brake? (a) a) Isolate DV b) Isolate BC c) Isolate TP cock d) Close BP angle coc	other							
261)	What is the initial charging time approximately of a single pipe air brake train? (a) 10-15 minutes b) 15-20 minutes c) 20-25 minutes d) 25-30 minute	ŕ							
262)	What is the initial charging time approximately of a twin pipe air brake train? (a a) 10-15 minutes b) 15-20 minutes c) 20-25 minutes d) 25-30 minute								

263)	Are BP & FP of an air brake	•	be kept OPE	EN always in an	isolated coach	n/wago	n (a)
	a) Yes	b) No	c) None of	two above	d) Above a	ıll		
264)	a goods train a) Full brake a		LP. b) S	air flow indicated in the same angle coc of the same application in the same a	elosed	n of (c)
265)	a) Secure loca		mation c) [ducting Air bra Detach loco and		GM loo Secure		
266)	a) Disable wo	rking control s	stand & enabl	onsol in WDG on the non working e non working	control stand	os? (a)
267)	If hot oil determine a) Engine cond) No effect	ctor operates _ nes to Idle		Engine will Shu	t down c) I	(Load m	b neter	
268)	-			tional brake ap	plication c) I	(Format	b ion t) orakes
269)	If battery am a) BS open	meter is showi b) MB1 tripp	-	ging, what may c) Battery c		O (AGFB	c tripp) ped
270)	be taken? a) BS to be op			ve battery, the b) Shut dov d) No actio	wn the engine		a)
271)	If battery amr a) BS open	neter shows ov b) MB1 tripp		what may be th		(AGFB) oed
272)	If BA shows of be taken?	over charging of	due to defecti	ve VRP, the fo	llowing action	is to	a)
	a) AGFB off	b) Shutdown	the Engine	c) Idle	d) No action	on requ	ired	
273)	What is the pu	urpose of VRP rd battery	?	b) To safeg	uard control ci	`	c)

	c) To maintain 72 V irrespective of engine speed d) To safeguard driver
274)	If battery ammeter shows discharging, what may be the reason? (d) a) AGFB Tripped b) VRP Fuse Blown out c) Cards Slack(BX,BN) d) All
275)	If battery ammeter shows discharging what should be checked on VRP? (b) a) AGFB b) Fuse c) MB1 d) Battery Knife Switch
276)	If Battery ammeter shows discharging and not rectified what is the action to (d) be taken? a) Work for 4 Hours b) Do not Shut down c) Do not allow for Automatic Shut Down.
277)	d)All of the above What is the reason for battery ammeter showing ZERO? a) Battery Switch Open b) AGFB Tripped c) VRP Defective d) AUX. GEN. Defective
278)	If engine is not cranking what is the switches to be checked? (d) a) Battery Knife Switch b) Engine Control Switch c) MUSD Switch d)All
279)	If engine is not cranking which switch is to be checked in nose compartment?(a) a) Battery Knife Switch b) Engine Control Switch c) MUSD Switch d) Start Switch
280)	If engine is not cranking which switch is to be checked on the front panel? (c) a) Battery Switch b) MUSD c) ECS d) GF Switch
281)	If engine is not cranking which contactors are to be checked? (d) a) FPC Contactor b) CK1 Contactor c) CK2 Contactor d) All the above
282)	For engine cranking what should be MUSD & ECS position? (b) a) RUN, RUN b) RUN, IDLEc) STOP, RUN d) STOP, IDLE
283)	What should be checked if engine shutdown with over speed? a) OSTA b) SAR c) Governor Am phenol plug d) Fuel pump motor
284)	What should be checked if engine shutdown on run with indication? (b) a) OSTA b) LWS c) SAR d) Governor Am phenol plug
285)	What happens if Amphenol plug is slack on run in WW governor loco? (a) a) Engine Idle, Load meter zero b) Only Load meter zero c) Only engine
idle	d) Engine shutdown

286)	a) Fireman emergency b) ACP c) Guard application d) All the above	
	a) Theman emergency b) There c) Guard application a) Thi the above	,
287)	What is the effect of AFL operation? (d))
	a) Engine comes to idle b) AFL Indicationc) Buzzer d) All the above	
288)	What is the effect if A9 is applied in emergency position? (b))
	a) AFL Operates b)Engine idle with full brakes c)Only loco brakes get applied d)No effect	
289)	Which item is used to reset AFL? (a))
	a) SW1 & SW2 b) SP1 & SP2 c) MCB1 & MCB2 d) MFPB1 & M	IFPB2
290)	To reset only Buzzer what is the action required by the Driver? (c))
	a) SW1 &SW2 b) SP1 &SP2 c) Switch On normal flasher light and SW1&SW2 Off d) All the above	
	c) Switch On normal hasher light and SW 1825 W2 Off a) All the above	
291)	To get quick charging of BP which should be operated? (b) SW1 &SW2 b) SP1 & SP2 c) MCB1 & MCB2 d) MFPB1 & MFPB2	١
292)	If AFL Malfunctions, what is the action to be taken? (b)	١
<i>2,</i> 2,	a) Tampering of pressure switches b) 171 Wire disconnection c) Pack DMR d) Fail the loco	
293)	What should be the control air pressure? (a))
	a) 5Kg/Cm ² b) 6Kg.Cm ² c) 8.5Kg/Cm ² d)9.5Kg/Cm ²	
294)	How do you adjust control air pressure? (c))
	a) A9 Feed valve b) SA9 Feed valve c) Limiting Valve d) HS4 Valve	
295)	Improper control air pressure leads to (d))
	a) Power Contactors fluttering b) Flash Over c) Power Ground d) All the above	ıd
296)	d) All the above If Head light fails what is the action to be taken by the Drivers? (b)	1
	a) Fail the loco b) Follow G&SR Rules	
297)	c) Work with classification lights d) Work normally If engine shuts down with hot engine alarm which safety device operates? (b)	
271)	a) ETS b) LWS c) SAR d) OPS B	
298)	If engine is running with Hot engine alarm which safety device is operated?(c))
	a) LWS b) OPS c) ETS d) SAR	
299)	BP pressure in Alco locomotive is kg/cm ² (b))

300)	FP pressure in	Alco locomotiv	e is	kg/c	em²	(c)
	a) 3.5	b) 5	c) 6	d) 8				
301)	Fuel oil relie	f valve is set at _		kg/cm² in Alco	locomotive	(b)
	a) 4.5	b) 5	c) 6	d) 8				
394.	Tappet clearand	ce in ALCO is _				(c)
		b) 0.02		c) 0.034"	d) 0.040"	ì		
302)	Main Bearing	elongation is				(d)
	a) 0.010"	b) 0.02	0"	c) 0.030"	d) 0.040"			
303)		torque is			,	(c)
	a)400	c) 500		c) 550	d) 600			
304)	Maximum Bra	ke cylinder press	sure wi	th SA9 in WDC	3 4	(d)
	a) 4 kg/cm ²	b) 3.5 kg/cm	n^2	c) 1.8 kg/cm ²	d) 5.2 kg/cm ²			
305)	Maximum Bra	ake cylinder pres	sure w	ith A9		(c)
	a) 5 kg/cm ²	b) 3.5 kg/cm	n^2	c) 1.8 kg/cm ²	d) 5.2 kg/cm ²			
306)	Horse power o	of WDG3A loco	is			(c)
	a)2600	b) 3600		c) 3100	d) 4000			
307)	Horse power of	of WDG4 loco is				(b)
	a)2600	b) 4500		c) 3100	d) 4000			
308)	Horse power o	of WDM2 loco	is			(a)
	a) 2600	b) 4500		c) 3100	d) 4000			
309)	Control air pre	ssure in Alco loc	ю	kg/cm²		(c)
	a)3.5	b) 4		c) 5	d) 6			
310)		ain bearings in V	VDG3A			(c)
	a)7	b) 8		c) 9	d) 10			
311)	Fuel tank capa	acity in WDG3A	loco is		liters.	(c)
	a)5000	b) 5500		c) 6000	d) 4000			
312)	Pinion to Bull	gear ratio in WD)		
	a)18:74	b) 18:65		c) 17:77	d) 17:90			
313)	Pinion to Bull	gear ratio in WI	OG3A	loco is		(a)

a) 3.5 b) 5 c) 6 d) 8

	a)18:74	b) 18:65	c) 17:77	d) 17:90				
314)	Pinion to	Bull gear ratio in	WDP4 loco is		(c)		
	a) 18:74	b) 18:65	c) 17:77	d) 17:90				
315)	Pinion to	Bull gear ratio in	WDG4 loco is			(d)
	a)18:74	b) 18:65	c) 17:77	d) 17:90				
316)	WDM3A	loco is having	no. of brake block	ks		(b)
	a)12	b) 24	c) 36	d) 16				
317)	Pinion to	Bull gear ratio in	WDM3A loco is _			(b)
	a)18:74	b) 18:65	c) 17:77	d) 17:90				
318)	In WDM	3A loco FTTM i	s driven with			(b)
	a)Belts	b) Gear c) I	Hydraulic pressure	d) Electric motor				
319)	In WDM	I3A loco RTTM	is driven with			(a)
	a)Belts	b) Gear c) I	Hydraulic pressure	d) Electric motor				
320)	Type of tr	ansmission in WI	DM3A loco			(b)
	a)DC-A	C b) AC-DC	c) DC-DC	d) AC-AC				
321)	Type of tr	ransmission in WI	OG3A loco			(b)
	a)DC-AC	b) AC-DC	c) DC-Do	C d) AC	C-AC			
322)	Type of tr	ransmission in WI	OG4 loco			(d)
	a)DC-A	C b) AC-DC	c) DC-DO	d) AC	C-AC			
323)	Type of tr	ansmission in W	DP4 loco			(d)
	a)DC-A	C b) AC-DC	c) DC-De	C d) AC	-AC			
324)	In Alco lo	oco LWS is located	d in			(c)
		Compartment ator room	b) Driven cabin	c) Compresso	or Com	ıpar	tmen	ıt
325)	No. of po	ositions in A9 valve	e			(d)
	a)2	b) 3	c)	4 d) 5				
326)	In Alco lo	comotive Battery	knife switch is locate	ed in		(a)
	a) Nose	Compartment	b) Driven	cabin				
	c) Comp	oressor Compartme	ent d) Radiato	or room				
327)	Type of e	ngine in Alco loco				(c)
	a)2 Stro	ke b) SI	c) 4 Stroke	d) None				

328.	Torque value	of water ju	mper in Al	co loco	(in ft-	lb)		(b)
	a)50	b) 75	c) 10	00		d) 125				
329.	No. of position	ns in SA9	valve					(b)
	a)5	b) 2		c) 3			d) 4			
330.	In Alco loco f	uel oil reg	ulating valv	e is set at	t	kg/cm²		(b)
	a)3	b) 4		c) 5			d) 6			
331.	In Alco loco lo	ube oil reli	ef valve is	set at	kg/c	cm²		(d)
	a)6	b) 7		c) 8			d) 9			
332.	In WDG3A lo	co max. ex	xhaust gas t	temperatu	re is _	°C		(b)
	a)500 b) 525	5 c)	600	d) 625						
333.	In Alco loco c	ompressor	is cooled b	оу	_			(c)
	a)Oil	b) Water			c) Air		d) None			
334.	In WDG3A lo	co compre	ession ratio	is	_			(c)
	a)12.5:1	b) 15:1	c) 11.7	' 5:1		d) 16:1			
335.	VCD penalty	takes place	after	sec.				(b)
	a)86	b) 76		c) 96			d) 68			
336.	MR safety val	ve is set at	k	g/cm²				(d)
	a)8	b) 8.5		c) 10		d) 10.5	5			
337.	In Alco loco I	EPG is loca	nted in					(c)
	a)Driver cab b) Nose compartment c) Compressor compartment d) Ra						diat	or ro	oom	
338.	In AC-DC loc	omotives o	engine is cr	anked by				(d)
	a)Main Gener	ator b) Auxiliary	Generato	or	c) Exc	iter Generator	d)	Au	xiliary &
	Exciter Gener	ator								
339.	In Alco Tracti	on Motor	gear case is	having _	no.	of bolts		(c)
	a)5	b) 6		c) 7		d) 8				
340.	To find out Bl	P leakage	in the form	ation	is	provide	ed	(b)
	a)BP gauge b) Air Flow	Indicator	c) FP g	auge	d) Spy	glass			
341.	In Alco loco, if water level comes down below 1" from bottom of tank						safety			
	device will op	erate						(c)
	a) PCS	b) OSTA	1		c) LW	S	d) LL	OB		
342.	Wheel number	rs to which	n brake bloo	cks get ap	plied v	when ha	nd brake is ap	plie	d in	
	WDG3A loco							(b)
	a)L1,L2	b) R1,R2		c) L1,R	t 1		d) L2,R2			

343.	Dust exhaust motors are available for type of filters	(b)
	a)Car body b) Cyclonic c) Air maize d) None			
344.	The safety device provided in brake system is	(b)
	a)LLOB b) PCS c) LWS d) OSTA	L		
345.	In Alco loco Sanders are operated through pressure	(a)
	a) MR1 b) MR2 c) FP d) None			
346.	Rectifier converts	(a)
	a)AC to DC b) DC to AC c) DC to DC d) AC to AC			
347.	Inverter converts	(b)
	a)AC to DC b) DC to AC c) DC to DC d) AC to AC			
348.	Idle RPM of WDG3A locomotive is	(b)
	a)350 b) 400 c) 450 d) 500			
349.	8th RPM of WDG3A locomotive is	(d)
	a)400 b) 950 c) 1000 d) 1050			
350.	Low Idle RPM of WDG3A locomotive is	(a)
	a)350 b) 400 c) 450 d) 500			
351.	Fabricated bogie is available in locomotive	(c)
	a)WDM3A b) WDG4 c) WDG3A d) WDP4			
352.	Type of bogie available in Alco loco locomotive	(b)
	a)BO-BO b) CO-CO c) BO1-1BO d) HTSC			
353.	Horse power of WDM3D locomotive is	(c)
	a)2600 b) 3100 c) 3300 d) 4000			
354.	In HHP locomotive engine cylinders are cooled by	(c)
	a) Water b) Oil & water c) Super charged air & Water	d) No	ne	
355.	Type of bogie available in WDG4 locomotive is	(c)
	a)Tri mount b) Fabricated c) HTSC d) None			
356.	Number of brake cylinders in WDM3A locomotive is	(b)
	a)4 b) 8 c) 10 d) 12			
357.	Reduction in BP pressure causes	(c)
	a)Brakes release b) Brakes slow release			
	c) Brakes application d) MR pressure increasing			
358.	WDM3A loco is having no. of brake blocks	((b)
	a)12 b) 24 c) 36 d) 16			

359.	Pinion to Bu	Il gear ratio in WI	OM3A loco is		(b)
	a)18:74	b) 18:65	c) 17:77	d) 17:90			
360.	In Alco loco	fuel oil relief valv	e is set at kg/o	em²	(a)
	a) 5	b) 2	c) 3	d) 4			
361.	In Alco loco	fuel oil regulating	valve is set at	_kg/cm²	(b)
	a) 3	b) 4	c) 5	d) 6			
362.	VCD penalty	takes place after	sec.		(ł)
	a) 86	b) 76	c) 96	d) 68			
363.	MR safety va	alve is set at	_ kg/cm²		(((i)
	a) 8	b) 8.5	c) 10	d) 10.5			
364.	In Alco loco	EPG is located in			((c)
	a) Driver ca	ıb	b) Nose com	partment			
	c) Compres	sor compartment	d) Radiator 1	room			
365.	In AC-DC lo	comotives engine	is cranked by		((d)
	a) Main Gene	erator b) Auxi	liary Generator c) I	Exciter Generator			
		d) Auxiliary & Ex	citer Generator				
366.	In Alco Trac	tion Motor gear ca	se is having no	o. of bolts	(c)
	a)5	b) 6	c) 7	d) 8			
367.	To find out E	BP leakage in the f	formation	is provided	(t)
	a)BP gauge b) Air Flow Indicator c) FP gauge d) Spy glass						
368.	In Alco loco,	, if water level con	nes down below 1"	from bottom of tank			_
	safety device	will operate			(c)
	a)PCS	b) OSTA	c) LV	VS d) L	LOB		
369.			blocks get applied	when hand brake is a	pplied	in	
	WDG3A loc	O			(b)
	a)L1,L2	b) R1,R2	c) L1,R1	d) L2,R2			
370.	Dust exhaust	motors are availal	ble fortype	e of filters	(b)
	a)Car body	b)Cyclonic c) Air maize	d) None			
371.	The safety de	evice provided in b	orake system is		(b)
	a)LLOB	b) PCS	c) LWS	d) OSTA			
372.	In Alco loco	Sanders are operate	ted through pr	ressure	(a)
	a)MR1	b) MR2	c) FP	d) None			

373.	Rectifier converts	(a)
	a)AC to DC b) DC to AC c) DC to DC d) AC to AC			
374.	Inverter converts	(b)
	a)AC to DC b) DC to AC c) DC to DC d) AC to AC			
375.	Idle RPM of WDG3A locomotive is	(b)
	a)350 b) 400 c) 450 d) 500			
376.	8th RPM of WDG3A locomotive is	(d)
	a)400 b) 950 c) 1000 d) 1050			
377.	Low Idle RPM of WDG3A locomotive is	(a)
	a)350 b) 400 c) 450 d) 500			
378.	Fabricated bogie is available in locomotive	((c)
	a)WDM3A b) WDG4 c) WDG3A d) WDP4			
379.	Compressor lube oil pump is driven by	(a)
	a) Chain b) Gear c) Belt d) Motor			
380.	The exhaust manifold is connected to the part of TSC	(a)
	a)Gas Inlet casing b) Intermediate casing c) Turbine casing			
	d)Blower casing			
381.	If white smoke is emitting from exhaust chimney, what could be the re	ason		(a)
	a) Water mixed with fuel oil b) Governor oil mixed with fuel o	oil		
	c) Lube oil mixed with fuel oil d) none of these			
382.	What is the Rundown test timing (in seconds) of Napier Turbo?	(b)
	a)120 to 200 b) 25 to 65 c) 90 to 180 d) 200 to 280			
383.	Water leaking continuously from water telltale pipe	(b)
	a) Dummy it work b) fail the loco			
	c) Do fast pumping d) work on lower notches			
384.	The rundown test of Napier is to be conducted on notch	(a)
	a)Idle b) 4 c) 6 d) 8			
385.	Hot Engine Alarm will come at °C in WDG3A locos	(c)
	a)60 b) 70 c) 90 d) 80			
386.	Electro Pneumatic Governor is located in	(a)
	a)Compressor room b) Radiator room c) Nose compartment d)	none		
387.	During MR efficiency test in WDG3A loco, kg/cm² MR pressure	should	l be	created
	within minutes.	(c)

	a)7, 5 b) 8, 4 c) 1	(10, 3 d)	5, 5				
388.	No. of Brake cylinders in	Alco loco		(b)	
	a)4 b) 8	c) 12	d) 10				
389.	In Alco loco Lube oil filte	r drum is loca	ted in	(a)	
	a) Radiator Room	b) Genera	tor room				
	c) Nose compartment	d) Engine	room				
390.	How many kinds of Brake	How many kinds of Brakes are provided in WDG3A/WDG4 loco					
	a) 2 b) 5	c) 4	d) 6				
391.	LWS is connected to			(b)	
	a)Water left side return he	eader b)	Water expansion tank				
	c)Water right side return h	neader d)	All the above				
392.	MR pressure unloading ta	kes place at _	kg/cm²	(a)	
	a)10 b) 8	c) 12	d) 10.5				
393.	From where the control ai	r pressure gets	s charged	(a)	
	a) MR1 b) MR2	c) FP	d) BP				
394.	Lube oil dipstick gauge of	WDG3A is h	aving liters capacity	(c)	
	a)400 b) 380 c) 6	600 d)	500				
395.	Fuel pump motor is not w	orking though	all circuit breakers are swite	ched 'ON	', the	reason	
	may could be			(d)	
	a) ERF not closed	b) R1 & F	R2 not picked up				
	c) GFC not picked up	d) FPC no	ot picked up				
396.	On what notch the run do	wn test of AB	B turbo is to be conducted	(b)	
	a) Idle b) 4	c) 6	d) 8				
397.	Reduction in BP pressure	causes		(c)	
	a) Brakes release	b)	Brakes slow release				
	c) Brakes application	c)	MR pressure increasing				
398.	In nomenclature of DE loc	comotives, the	e last two digits denote	(b)	
	a) Weight of loco b) l	Horse Power	c) LOP d) FOP				
399.	Fuel oil crossover flexible	pipe is locate	ed in	(c)	
	a) Nose compartment	b)	Radiator room				
	c) Engine Power take off	end d)	Engine Free end				
400.	After cooler cooled air in	'V' channel is	called as	(d)	
	a)Control air pressure	b) HS4 p	pressure				

	c)Conjunction pressure d) Booster air pressure			
401.	The compressed air enters to MR1 tank through	(c)
	a) MRSV b) MR2 c) MR cooling coil d) Air dryer			
402.	Compressor Inter cooler safety valve is set at PSI	(c)
	a)100 b) 80 c) 60 d) 40			
403.	In WDG3A loco ¾ coc (BP coc) is located in	(b)
	a) LP cab b) Nose compartment c) S/H Control stand d) None			
404.	ABB Turbo effective Rundown time is seconds	(b)
	a)100 to 180 b) 120 to 200 c) 25 to 65 d) 90 to 180			
405.	In WDG3A high adhesion bogie the loc body weight is supported			
	on bogie frame through	(a)
	a) 4 load pads b) Centre pivot c) Centre pivot & side bearers d) side s	prin	gs	
406.	In WDG3A loco on each truck no. of hydraulic dampers			
	are provided	(d)
	a) 5 b) 2 c) 8 d) 6			
407.	is provided on WDG3A bogie to avoid run out of bogie			
	from chassis	(c)
	a)Centre pivot b) side bearers c) D shackles d) side stoppers			
408.	On WDG3A each truck is fitted with			
	arrangement of traction motors	(d)
	a)LLL b) LRR c) LRL d) LLL & RRR			
400	I WDC2A1			
409.	In WDG3A loco when A9 is brought to Emergency position, action	(`
	takes place in Auto Flasher system is	(a)
	a) DMR de-energize b) BKT will come to braking c) CEOLB will trip d) Flocker light will glow			
410	c) GFOLR will trip d) Flasher light will glow	(`
410.	Power contactors fluttering is due to	(С)
	a) Less magnetism b) Load meter defective d) Week betteries			
111	c) Less control air pressure d) Week batteries The following may be used for fast charging of RP in WDC2 A	(`
411.	The following may be used for fast charging of BP in WDG3A a) Poleose position of AQ, b) Foot podel, a) SP1, d) SW1	(С)
412	a) Release position of A9 b) Foot pedal c) SP1 d) SW1 In WDG3 A logo whenever BP drops below kg/cm²			
412.	In WDG3A loco whenever BP drops below kg/cm² Other than A0 expertion Auto flesher will some	1	L	`
	Other than A9 operation Auto flasher will come	(b)

	a)4.2 b) 4.4	c) 4.3	d) 4.0				
413.	In Twin beam head lights	volts ha	logen lamps aı	re used	(c)
	a)72 b) 32	c) 24	d) 20				
414.	In twin beam head light system	m in DC	C-DC converte	er if one unit is defecti	ve the	e stai	nd by
	unit can be brought into funct	ion by			(a)
	a)Operating change over swit	ch on D	C-DC convert	ter			
	b)By changing to other control	ol stand					
	c) By replacing bulb		d) none				
415.	In MCBG loco Actuator/Sens	sor unit	is located at		(d)
	a) Compressor compartment		b) Excitation	Panel			
	c) LP cab		d) Existing lo	cation of Governor			
416.	In MCBG loco when shut dov	wn occu	rs due to over	speed			
	initiated by MCBG, it should	be ackn	nowledged by		(a)
	a) Resetting push button	b) OST	test key switc	ch			
	c) Power switch	d) GFC	LR reset butto	on			
417.	The conventional Electronic t	ype exc	itation system	is			
	replaced with				(a)
	a) Microprocessor b) Stati	ic type	c) Shunt typ	e Self Excitation			
418.	Breather valve is provided on	1			(c)
	a) Governor b) LP (Cab	c) Compress	sor d) Main gene	erator		
419.	In MU trailing loco during pa	rting, tr	ail position ch	anges to			
	Lead position in brake system	n throug	h		(d)
	a) D1 pilot air valve b) M	alve d) F1 selector v	alve				
420.	FP pressure is charged from				(a)
	a) MR1 b) MR2	c) MR	Equalizing	d) None			
421.	MREq pressure is charged from	om			(a)
	a) MR1 b) MR2	c) MR	Equalizing	d) None			
422.	Sanders are operated from				(a)
	a) MR1 b) MR2	c) MR	Equalizing	d) None			
423.	Horns are operated from				(a)
	a) MR1 b) MR2	c) MR	Equalizing	d) None			
424.	Wipers are operated from				(a)
	a) MR1 b) MR2	c) MR	Equalizing	d) None			

425.	Sensitivity of DV is			(a)
	a)0.6 kg/cm ² in 6 sec b) (0.6 kg/cm ² in 60	sec			
	c)0.3 kg/cm ² in 60 sec d) I	None				
426.	In banker loco 3/4 th cock s	should be in	position	(b)
	a)Open b) close	c) 'a' or 'b'	d) None			
427.	Maximum BC pressure in	kg/cm² with SA	A9 in Alco loco	(a)
	a) 3.5 b) 1.8	c) 5.0	d) 5.2			
428.	Maximum BC pressure in	kg/cm² with A9	in Alco loco	(b)
	a) 3.5 b) 1.8	c) 5.0	d) 5.2			
429.	Purpose of F2 feed valve	is to charge		(b)
	a) BP b) FP	c) MREQ	d) BCEQ			
430.	In Alco loco IRAB1 brake	e system to nulli	fy conjunction brake			
	temporarily is used			(d)
	a)SA9 release b) S	SP1 c) S	W1 d) Foot peda	1		
431.	In Alco loco SP1 is provid	led for		(b)
	a)Over charging b) (Quick charging	c) resetting AFL	d) resetting	g VC	'D
432.	In Alco loco MV27 switch	n is provided fo	r	(a)
	a) Over charging b) (Quick charging	c) resetting AFL	d) resetting	g VC	'D
433.	In IRAB1 system, conjunc	ction brakes wil	l come due to valv	re (b)
	a)C2 Relay valve b) I	Distributor valve	e c) MU2B d) No	one		
434.	In MU lead loco MU2B p	osition should b	e	(a)
	a) Lead b) 7	rail c) D	d) None			
435.	In MU trail loco MU2B p	osition should b	e	(b)
	a) Lead b) 7					
436.	In Alco locomotive MR of	eut in pressure (i	in kg/cm²)	(c)
	a)5 b) 10	c) 8	d) 6			
437.	In Alco locomotive MR of	eut out pressure	(in kg/cm²)	(b)
	a)5 b) 10	c) 8	d) 6			
438.	No. of lube oil filters in lu	be oil filter drui	m of WDM3A loco	(b)
	a)4 b) 8	c) 10	d) 12			
439.	In Alco loco lube oil coole	er is located in		(c)
	a) Nose compartment b) Engine room	c) Radiator compartme	nt d) None		
440.	Number of belts in RTTM	blower pulley		(b)

	a)4 b) 6 c) 8 d) 2			
441.	In Alco loco lube oil pump is driven by	(a	
	a) Extension shaft gear b) Electrical motor c) Belt d) i	none		
442.	Cam gears are lubricated by	(b)
	a) Main header b) Auxiliary header c) both a & b d) None			
443.	In Wood ward governor loco LLOB tripping is set at			
	kg/cm² in Idle	(a	
	a) 1.3 b) 2.5 c) 3.5 d) 5.0			
444.	In Wood ward governor Loco LLOB tripping is set at			
	kg/cm ² in 8 th notch	(c)
	a)1.3 b) 2.5 c) 3.5 d) 5.0			
445.	Air flow indicator gives indication to LP about	(b)
	a) FP leakage b) BP leakage c) MR leakage d) None			
446.	safety device is provided to prevent			
	traction motors from damages	(c)
	a) ESR b) SR c)WSR d) GFOLR			
447.	L5 HP pipe line is cracked	(b)
	a) Fail the loco b) Lock rack of L5 c) lock left side racks d)	Ignore		
448.	When GF contactor is packed loco can be worked in	(c)
	a) by manual transition b) only in parallel			
	c) series parallel d) normal			
449.	During dynamic braking valve avoids loco brake to apply	(c)
	a) C2 relay valve b) Additional C2 relay valve c) BKIV d) S	SA9		
450.	In IRAB1 brake system PCS2 picks & drops at	(d)
	a)4.0 & 4.5 kg/cm ² b) 1.3 & 1.6 kg/cm ²			
	c)2.5 & 3.0 kg/cm ² d) 4.0 & 2.8 kg/cm ²			
451.	If electrolyte leaks from battery, will happen	(a)
	a) Starting ground b) battery discharging			
	c) Non-explosive power ground d) engine shut down			
452.	If explosion door burst,	(a)
	a) Fail the loco b) wait for second time			
	c) Work on 4 th notch d) work up to destination			
453.	Engine having 5 kg/cm ² and BV having 4.0 kg/cm ² of BP	(d)

	then test to be conducted			
	a) Efficiency b) Continuity c)Blockage d) Leakage			
454.	test is to be conducted while clearing stabled loads	(c)
	a) Blockage b) Leakage c) BP continuity d) Efficiency			
455.	To find out leakage in the formation is provided	(a)
	a) Air flow indicator b) Main Reservoir c) BP gauge d) Spy glass			
456.	In WDG3A, if Hand brake is applied, brakes will apply to			
	wheels	(b)
	a)L1,L2 b) R1,R2 c) L3,L4 d) R3,R4			
457.	In expansion tank, if water level comes below 1" from			
	bottom of tank safety device will operate	(c)
	a)LLOB b) PCS c) LWS d) OSTA			
458.	When train parting on run will operate to bring			
	engine speed to Idle	(a)
	a) PCS2 b) P1 c) P2 d) Both b & c			
459.	In short hood control stand duplicate breaker is provided	(d)
	a) MCB b) MFPB c) AGFB d) ERF			
460.	The safety device provided in brake system is	(b)
	a)LLOB b) PCS2 c) OSTA d) LWS			
461.	Dust exhaust motor is available for	(b)
	a) Car body filters b) Cyclonic filters c) Air maize filters d) all	of the	e abo	ove
462.	If radiator room door remain open position will be experienced	(b)
	a) Engine shut down b) Hot Engine c) Load meter not responding d) Nor	ne	
463.	Control air pressure is controlled by	(b)
	a) F2 feed valve b) Limiting valve c) MU2B valve d) F1 selection	ctor v	alve	•
464.	The traction motor gear case is having no. of bolts	(a)
	a) 7 b) 5 c) 4 d) 8			
465.	In WDM3A loco LLOB prevents engine damages due to lack of	(b)
	a) water a)cooling b) lubrication c) governor oil supply d) None of	of the	ese	
466.	³ / ₄ " COC is between &	(a)
	a) Additional C2 relay valve & BP pipe			
	b) MR2 & Additional C2 relay valve			
	c) C2 relay valve & Brake cylinder			

	d) None of these								
467.	In WDG3A LWS located in	(b)					
	a) Engine room b) compressor room c) Radiator room d) Ger	nerat	or ro	om					
468.	N1 reducing valve/Limiting valve is provided in	(b)					
	a) Engine room b) Nose compartment c) Radiator room d) General	erato	r roc	m					
469.	In WDM3A axle boxes are lubricated by	(c)					
	a) Lube oil b) Cardium compound c) soft grease d) ha	rd g	rease	;					
470.	N1 reducing valve/Limiting valve is used to control pressure	(c)					
	a) BP pressure b) FP pressure c) Control air pressure d) M	Ir pro	essur	e					
471.	Malfunctioning of LWS leads engine to	(c)					
	a) Idle RPM b) 4 th notch RPM c) Shut down d) Not	ne of	thes	se					
472.	Number of Brake cylinder COCs on WDM3A locomotive	(a)					
	a) 2 b) 4 c) 6 d) 8								
473.	One the reason for MR pressure not building up is	(b)					
	a) Safety valve dummied b) Inter cooler tubes burst								
	c) ABD valve not working d) engine hunting								
474.	Position of EPG switch on control stand in rear loco of MU is set	(c)					
	a)Neutral b) ON c) OFF d) Close								
475.	Auto flasher light comes into action if	(c)					
	a) A9 applied b) SA9 applied								
	c) Unauthorized drop in BP due to ACP, train parting etc.								
	d) Dynamic brake applied								
476.	Flat tyre happen	(d)					
	a) If hand brake in applied condition								
	b) If SA9 is applied instead of A9 on run								
	c) Wheel is not rotating due to TM bearing seize or obstruction in gear case								
	d) All the above								
477.	Problem in brake power is due to	(d)					
	a) A9 COC in both control stands in open condition								
	b) A9 COC in both control stands in closed condition								
	c) For loaded rake load/empty device is in empty direction								
	d) All the above								
478.	AFL gets operated during	(d)					

	a) D1 emergency	b) ACP	c) Guard application	d) all the above	ve				
479.	Control air pressure in	loco			(a)		
	a) 5 kg/cm ²	b) 6 kg/cm ²	c) 8 kg/cm ²	d) 10 kg/cm ²					
480.	In AC-DC locomotive	s engine is cra	anked by		(b)		
	a) Main Generator	b) Au	xiliary generator & Exc	eiter generator					
	c) Auxiliary generator	d) Exe	citer generator						
481.	Whenever cattle run o	ver takes plac	e, if BP dropped due to	front side BP	angle	e CO	C is		
	broken, LP has to clos	e COC to	maintain BP		(c)		
	a)BC COC b) A9 (COC c) from	nt side additional BP ar	igle COC d) 3	⁄4" C	OC			
482.	type of bogie is p	orovided in W	DM3A locomotive		(a)		
	a) CO-CO tri mount be	ogie							
	b) CO-CO tetra mount	high adhesio	n bogie						
	c) CO-CO flexi coil bo	ogie							
	d) BO-BO tri mount b	ogie							
483.	type of bogie is p	provided in W	DG3A locomotive		(b)		
	a) CO-CO tri mount b								
	b) CO-CO tetra mount								
	c) CO-CO flexi coil bogie								
	d) BO-BO tri mount b	ogie							
484.	When A9 is applied, n	naximum	_ kg/cm² pressure will	enter into loco	brak		inder		
	a)1.5 b) 2.0	c) 1.8	d) 3.5		(c)		
485.	VCD acknowledgement is done by operating once								
	in every 60 seconds				(d)		
	a) A9 application		b) operation o	f horns					
	c) Increase or decrease of Throttle d) any of the above								
486.	In conventional locos,	when VCD is	sacted		(d)		
	a) Engine comes to Id	le	b) BP drops						
	c) Brakes will apply		d) all the above						
487.	For resetting VCD wa	it for sec	conds		(b)		
	a) 30 b) 35	c) 60	d) 20						
488.	In IRAB1 system BP 1	oressure is adj	usted by keeping						
	A9 feed valve handle	in positi	on		(b)		
	a) Full service	b) Release	c) Over reduction	d) Emergency	y				

489.	In Alco locos non-working control stand A9 handle position is	(b)		
	a) Full service b) Release c) Over reduction d) Emergence	y				
490.	When BP drops below 4.4 kg/cm² without A9 application					
	starts functioning	(c)		
	a) APU b) VCD c) AFL d) all the above					
491.	Additional C2 relay valve is meant for pressure creation,					
	Maintenance & destruction	(b)		
	a)FP b) BP c) BC d) all the above					
492.	In MU locos, MU2B position in leading loco is					
	& in trailing loco is	(a)		
	a) Lead, Trail b) Trail, Trail c) Trail, Lead d) Lead, Lead	d				
493.	brake only can be applied in stabled dead loco					
	when pneumatic pressure is zero in main reservoir	(c)		
	a)A9 b) SA9 c) Hand Brake d) No brake can be applied					
494.	Position of A9 COCs in the loco shall be	(c)		
	a) Open in both control stands					
	b) Close in working control stand & Open in Non-working control stand					
	c) Open in working control stand & Close in Non-working control stand					
	d) None of the above					
495.	Position of SA9 COCs in the loco shall be	(a)		
	a) Open in both control stands					
	b) Close in working control stand & Open in Non-working control stand					
	c) Open in working control stand & Close in Non-working control stand					
	d) None of the above					
496.	In IRAB1 system A9 feed valve has no. of positions	(b)		
	a) 2 b) 5 c) 4 d) 3					
497.	In IRAB1 system SA9 feed valve has no. of positions	(a)		
	a) 2 b) 5 c) 4 d) 3					
498.	During A9 Emergency position BP becomes kg/cm² and					
	BC becomes kg/cm²	(a)		
	a) 0 & 1.8 b) 5 & 3.5 c) 2.5 & 0 d) 0 & 0					
499.	If emergency applied operates and engine comes to Idle	(c)		

	a) AFL	b) VCD	c) PCS2	d) P1				
500.	If C3W distri	ibutor valve G	/P handle is pla	aced wrongly in pa	ssenger			
	formation					(a)
	a) Loco brakes will apply lately							
	b) Loco brakes will not apply							
	c) Formation	brakes will no	ot apply					
	d) None							

501.	Decolourization of lube oil to grey brown or milky colour is evidence in the lube oil (a) water b) fuel oil c) carbon d) None
502.	EPG will maintain MR pressure between \kg/cm^2 to \kg/cm^2 (c) a)5 , 10 b) 10, 12 c) 8, 10 d) 10, 10.5
503.	If ETS is operated, engine RPM will (c) a) Increase b) decrease c) not be effected d) None
504.	If LWS is operated indication is displayed (c) a) Wheel slip b) PCS c) Hot engine d) none
505.	To avoid separation of chassis & bogie are provided in WDM3A locomotive (a) Collar pins & U bracket (b) D shackles (c) Both a & b (d) None of the above
506.	To avoid separation of chassis & bogie are provided in WDG3A locomotive (b) a) Collar pins & U bracket (b) D shackles (c) Both a & b (d) None of the above
507.	WDG3A loco super structure load is carried by a) Centre pivot b) load pads c) coil springs d) both a & b
508.	WDM3A loco super structure load is carried by a) Centre pivot b) side bearers c) coil springs d) both a & b
509.	In WDG3A loco FTTM blower cools traction motors (a)1,2,3 b)4,5,6 c)1,3,5 d)2,4,6
510.	In WDG3A loco RTTM blower cools traction motors (b)

511.		ts limit	ositive press gets operat plosion door	ed	(c)
512.	Horse Power a)3100			d) 4000	(b)
513.	In WDM3A a) 2			_ different speeds d) 5	(a)
514.	Air dryer is p a)MR Coolin c)Compresso	ng coil & MI	R1	b) MR1 & MR2 d) Inter cooler & After	(coole	b er)
515.	Gear case of a) Lube oil			_	(m con	d npou	,
516.	Number of translation 1			motive d) 4	(a)
517.	type of f a) Foam	_	-	ed in DE locomotives d) CO2	(b)
518.	while startin	g the train o	n gradi	e releasing loco brakes ent c) steep ascending d)	(None	c)
519.	ECC (Edddy a) Compresse c) Engine roo	or room		ed in b) Radiator room d) Generator room	(b)
520.	LLOB is pro a)Woodward		governor b) GE	c) MCBG d) l	(EP	a)
521.	If OSTA trip a) Idle	s, engine wi b) Shut dow		c) 2nd notch RPM d) i	(none	b)

522.	If ECC is short circuited breaker will trip a) FPB b) MFPB c) MCB d) MPCB	(a)
523.	If there is no control air pressure will not pick up a) Power contactors b) Breaking contactors c) Reverser contactors d) all of the above	(d)
524.	Sanders test on WDG3A to be conducted by keeping reverser handle in position a) Neutral b) Forward c) Reverse d) 'b' or 'c'	(d)
525.	Compressor efficiency test is conducted by using mm test orifice a)5 b) 7.5 c) 8 d) 10	(b)
526.	In AC-DC loco if CK3 N/C interlock is defective contactor will not pick up a) GF b) FPC c) CK1 d) CK2	(a)
527.	Starting ground occurs due to earth fault in circuit a) Control b) power c) both a & b d) None	(a)
528.	COS (Centrifugal Oil Separator) is provided in system a)Fuel oil b) lube oil c) air intake system d) none	(b)
529.	Lube oil pump is driven by a) gear b) chain c) electric motor d) none	(a)
530.	Water pump is driven by a) gear b) chain c) electric motor d) none	(a)
531.	In Alco loco Wood ward governor is located at a) Engine left side power take off end b) Engine right side power takeoff end c) Engine left side free end d) Engine right side free end	(b)
532.	Fuel oil tank capacity in WDG3A locomotive (in liters) a) 5000 b) 6000 c) 3000 d) 4000	(b)

533.	In WDM3A fuel oil primary filte	(a)	
	b) Compressor room	b) Engine room			
	c) Radiator room	d) under truck			
534.	In WDM3A fuel pump motor is l	ocated in	(a)
	a) Compressor room	b) Engine room			
	- · · · · · · · · · · · · · · · · · · ·	l) under truck			
535.	Working of compressor lube oil	oump is indicated by	(c)
	a) Breather valve	b) Spy glass			
	c) Projection of brass spindle	d) Sight glass			
536.	Compressor crank case vacuum i	s maintained by	(a)
	a) Breather valve	b) spy glass			
	c) Brass spindle unit	d) CCEM			
537.	If MCBG power breaker is trippe	ed on run engine will	(a)
	a) Shut down b) come	e to Idle c) none			
538.	In Alco loco BKBL is located in		(c)
	a) Engine room	b) Compressor room			
	c) Nose compartment	d) Radiator room			
539.	BKBL gets current from		(c)
	a)Battery	b) Auxiliary gener		•	
	c)Current developed by TM during	ng DB d) Main generator			
540.		- -			
	brake cylinder for brake applic		(b)
	a) Control reservoir	b) Auxiliary reservoir			
	c) Main reservoir	d) none			
541.	Feed pipe is getting charged by _		(c	
	a) C2w relay b) F1 se	elector c) C2N d) C2	W I	OV	
542.	The super charged air in the air n	nanifold is called	(a)
	a) BAP b) CAP c) FP	d) BP			

543.	a) Only AFL opera	Engine comes to Idl			(b)	
544.	In WDG4 locomo	tive Compression rab) 12.5:	atio is c) 11.75:1	d) 16:	(:1	d)	
545.	BP pressure WDG a) 3.5	64 locomotive is b) 5	c) 5.2	g/cm ² d) 8	(c)	
546.	Horse Power of W a) 3000 HP b)	DG4D locomotive () 4000 HP () 3:	500 HP	d) 4500 HP	(d)	
547.	Type of diesel eng a)4 stroke	gine in WDG4 loco b) 2 stroke	motive c) 3 stroke	d) SI	(b)	
548.		r ratio in WDG4 lo b) 17:77	comotive c) 18:74	d) 17:90	(d)	
549.		r ratio in WDP4 loo b) 17:77		d) 17)	
550.	Maximum speed of a) 100	of WDG4 locomotion b) 150	ive c) 160	d) 180	0	a)	
551.	Maximum speed of a) 120	of WDP4 locomoti b) 150	ve c) 160	d) 18		c)	
552.	Transmission in a)DC-DC	WDG4 locomotive b) AC-AC	is c) DC-AC	d) AC	`	b C)	
553.	Fuel tank capacity a)4000	in WDG4 locomot b) 5000	ive c) 6000	d) 70	`	c)	

554.	Type of diesel eng a) Alco-251			10G3B d)	,	c '46N	
555.	Number of power a) 0	contactors in HH b) 6	P locomotive c) 9	d) 10	(a)
556.	Number of cylinder a)12	ers in WDG4 loo b) 16	comotive c) 18	d) 20		b)
557.	Type of traction manal (AC motors)			& B d)	,	a ne)
558.		peedometer is ava b) Radar s d) Electro	sensor	P locomotive	e (b)
559.	In WDG4 locome a) Air	-	=		(Natu	b re)
560.	Number of positio a)2	ns of Auto brake b) 4	e in WDG4 lo c) 5		(c)
561.		otive hot oil detected to the control of the contro			(b)
562.	Blended brake is a a)WDG4					b 13A	
563.	Lube oil sump cap	acity in WDG4 l b) 1100	locomotive (in c) 910		(d)
564.	Full RPM of WD a)1000	G4 locomotive b) 1050	c) 954	d) 1100	(c)
565.	Idle RPM of WI a)200 b) 26		350	d) 400	(b)
566.	Low Idle RPM of a) 200	WDG4 locomot b) 269	c) 350	d) 4	00	a)

567.	Coolant water capacity in HHP locomotive a)1000 b) 1100 c) 10		(c)
568.	Minimum continuous speed of WDG4 local a)21.5 b) 22.5 c) 20.5	omotive (in Kmph) d) 23.5	(b)
569.		suspension	(b)
570.	In HHP loco fuel oil system which type of a) Unit Injectors b) Injector with HP line	2	
571.	j	nly Inlet valves	(c)
572.	In HHP locomotive Turbo charger is driver a) Exhaust Gas b) Gear T c) Gear Train & Exhaust Gas d)None	<u> </u>	(c)
573.	Number of Lube oil pumps in HHP locomo a) One b) Two c) The		(d) ur
574.	In HHP locomotive air compressor lube oil a) 10 b) 12 c) 15		ers) (a)
575.	Type of bogie used in HHP locomotive a) Fabricated b) Cast steel	c) HTSC	(c) d) None
576.	J 1	ive CB-Knorr	(c) d) None
577.	•	s ter pressure button w	(c) vill trip

		HHP locomotiv		_			_	
Sta		L/T switch show Test	b) HLPR					
	a)	1681	U) HLFK	C)	Leau	u) 11	all	
		HHP locomotiv		lucting B	P leakage tes	t L/T swi	itch should (a)	
	a)	Test	b) HLPR	c)	Lead	d) Tr	rail	
		WDG4 banker in		control s	tand Auto br	ake hand (c		
RO		Release		c)	FS	`	nergency	
	In	WDG4 banker 1	,					
	a)	Lead	b) Trail	c)	HLPR	d) Te	est	
582.	a)	HHP locomotive Primary filter clube oil filter c	noked	b) Spin o	on filter chok	ted	es (b)	
583.	a)	HHP loco, chok Filter condition Both A & B	gauge	-		•		
	In WDG4 MU trailing loco, L/T switches in both control stand should be pt in (d)							
	a)	Test	b) HLPR	c)	Lead	d) Tr	ail	
585.		l lubricated TM WDM2	gear case is p b) WDM3A		n WDG4	d) W	(c) DG3A	
586.	a)] b)] c)]	ring order of HH 1,8,9,16,3,6,11,1 1,2,3,4,5,6,7,8,9, 1,3,5,7,7,11,13,1 None	4,4,5,12,13,2 10,11,12,13,1	,7,10,15 14,15,16			(a)	
587.		oco model of WI GT46PAC)G4 b) GT46M <i>A</i>	мС	c) Both A	A & B	(b) d) None	

588.	Loco model of W a) GT46PAC		AC		c) Bot	th A & B	(d)	a No	-
589.	Number of cylind a) 2	lers of air cor b) 3	npresso	or in W c) 4	DG4 1	oco d) 6	(b)
590.	Number of batteria a) 02	ies in WDG4 b) 10	loco	c) 08		d) 6	(c)
591.	Number of batteria 02	ies in WDP4 l b) 10	loco	c) 08		d) 6	(b)
592.	Number of axles in a) 04	in WDP4 loco b) 06)	c) 08		d) 10	(b)
593.	Number of position a) 02	ons in Direct b) 04	Brake	of WE c) 05		co d) 06	(a)
594.	In WDG4 loco es a) 538°C	xhaust gas ter b) 438°C					(a)
595.	Number of radiate a) 02	or fans in HH b) 01	P loco	motive c) 03		d) 04	(a)
596.	Number of water a) 02	pumps in HH b) 01	P loco c) 03	motive	;	d) 04	(a)
597.	Number of brake a) 08		HP loco	omotive	e	d) 24	(c)
598.	Brake cylinder pro	essure in HH b) 5.2		motive c) 3.5	(in K	g/cm²) d) 3.0	(b)
599.	In HHP locomotia) R4,R5	ive hand brake b) R4,L4		es on w c) R4,		d) L4,L5	(a)
600.	Diameter of new a) 1090	wheel in HHI b) 1092		notive c) 108		mm) d) 1100	(b)

601.	To check engine sump oil level, engine sla) Shut down b) Idle c)	nould be in condition (b) 4th Notch d) 2ndNothch
602.	Number of after coolers in HHP locomot a) 02 b) 01 c)	
603.	Number of water expansion tanks in HHF a) 02 b) 01 c)	
604.	Which type of Traction Motors fitted in Fa) 3-Phase AC Motors b) DC Series M	
605.	Which type of Main Generator fitted in Habital DC Generator b) 3 Phase Alternator	
606.	a) To control 3-Phase AC Motors b)	
607.	No. of Traction Inverters in HHP loco (la) 6 b) 5 c) 4	In Medha make Traction system) d) 3 (a)
608.	No. of Traction Inverters in HHP loco (la) 6 b) 2 c) 4	In EMD/Siemens Traction system) d) 3 (b)
609.	ε	ker in HHP locomotive (d) 20 AMP d) 35 AMP
610.	Number of DC link switch gears in HHP a) 6 b) 5 c)	
611.	In HHP loco, During DB TCC converts a) DC into 3 Phase AC b) 3 Phase into	DC c) Both A & B d) None
612.	In HHP loco, ECC-2 is located in a) Driver Cab b) Under c) Near Compressor Room d) None	Truck
613.	In HHP loco, STA, ST contactors are loca a) ECC-1 b) ECC-2 c)	ated in (b) ECC-3 d) ECC-4

614.	In HHP loco, ECGa) Driver Cabc) Near Compress			ider Tr ne	ruck		(a)
615.	In HHP loco, ECo a) Driver Cab c) Near Compress			nder Tr ne	ruck		(c)
616.	In HHP loco, Por a) FS contactors			-		d) DC	`	d nk	
617.	In HHP loco, if LLOB is in tripped position during cranking en								
	a) Crank	b) not Fire		c) not	Hold	d) not	`	d anl	_
618.	In WDG4 loco, lo a) In Accessories		-			ab	`	b EC) CC-3
619.	In HHP loco, if A a) Battery will di c) Both a & b	scharge b) Lo			not respond t down	[(c)
620.	In WDG4 loco Tr a) Force air venti c) Water cooled		is	•	b) oil coole d) None	d	(a)
621.	Total no. of Batte a) 01	ries in WDG4 b) 02	4 loco c) 08		d) None		(c)
622.	Total no. of Cells a) 32	of batteries i	in WD(c) 64	G4 loc	o d) None		(a)
623.	Total no. of Cells a) 32	,	,	4 loco	,		(b)
624.	Total no. of Batte a) 10	ries in WDP4 b) 02	loco c) 08		d) None		(a)

625.	In HHP loco engine starting switch is located in a) ECP b) Engine room c) Control stand d) None	(a)
626.	No. of Grid blower motors in WDG4 loco a) 04 b) 02 c) 03 d) None	(b)
627.		ve current	b) in DB
628.	In WDG4 loco Battery charger rectifies AC to DC of a) Aux Generator output b) Companion A c) Main Alternator output d) none	(lternator o	a) utput
629.	In WDG4 loco, if on run GR trips then the engine a) Will shut down b) comes to Idle c) No effect on engine d) No effect on l	oco ((b)
630.	In WDG4 loco the companion Alternator runs at the sata a) Engine RPM b) Aux Gen RPM c) Turbo RPM	me speed a	(a)
631.	In WDG4 loco, Radiator fan controlled by a) EM2000 b) TCC c) Both A & B	d) Non	a) e
632.	In WDG4 loco HP input to Traction motors is a) 4000 b) 3726 c) 3100 d) 3900	(b)
633.	In WDG4 loco compressor is cooled by a) Nature b) Air c) Oil d) Water	(d)
634.	In WDG4 loco turbo is cooled by a) Nature b) Air c) Oil d) Water	(c)
635.	1	(OC Link	d)
636.	In WDG4 (ECS) isolation switch is having no. of a) 1 b) 2 c) 3 d) 4	positions(b)

637.	While on run if airflow indicator shoots up with jerk, it indicates(b) a) AFI defect b) parting taken place c) spring broken d) moisture in air
638.	For quick charging of BP in WDG4 loco, is used. (d) a) SP1/SP2 b) SW1/SW2 c) Foot pedal d) Auto Brake Release
639.	brake available only in WDP4. (c) a) Computer brake b) Vigilance brake c) Blended brake d) Tread brake
640.	Blended Brake is a mixture of a) Vacuum + Air b) Formation + Dynamic + Loco c) Formation + Loco d) Dynamic + Loco
641.	In WDP4 loco when loco is moving in opposite direction to the reverser position will happen soon the speed increases to 5 kmph. (a) a) Dynamic brake comes into action b) Alerter will come into function c) Power ground will take place d) loco will shut down
642.	When wheel is floated speed is restricted to kmph. (b) a) 25 b) 30 c) 35 d) 40
643.	Excess brake cylinder pressure can cause a) Quick speed dropping b) Train brakes not required c) Wheel skidding d) Dynamic brake not necessary
644.	In fuel oil system type of filters are used (d) a) Socks type b) Foam type c) Mesh type d) Paper type
645.	While EOT (Engine on Train) L/T switch should be in position (d) a) Lead b) Trail c) Helper d) Test
646.	Bail off ring is operated to nullify brake (d) a) Loco b) Formation c) blended d) conjunction

647.	In HHP loca	_				(c)
		stand y rack						
648.	In HHP loco a)3.5	•	-	ure is d) 5.2	kg/cm²	(b)
649.			b) Co	mpressor (compartment	(c)
650.	In HHP loco a) MR2	MVCC is c b) MR1		line d) FP		(b)	
651.	MREQ pres a) MR1	sure is charg b) MR2		l air	d) FP	(a)
652.	Sanders are a) MR1	operated from b) MR2		d) BCEQ		(a)	
653.	Horns are of a) MR1	perated from b) MR2		d) BCEQ		(a)	
654.	Sanders are a) MR1	operated from b) MR2		d) BCEQ		(a)	
655.	Swept voluma) 657	me of one cyl b) 710			loco (in cu. In	nch)((t)
656.	No. of engina) 8	ne cylinders i b) 12	n HHP loco c) 16	d) 20		(c)
657.		VDP4 loco cr b) Eductor			intained by vacuum pump	(b)
658.	In HHP loca a) Nose com c) ECC2	MRPT is lonpartment	cated in	b) ECC1 d) ECC3		(d)

659.	In HHP loco MVCC is located in					(b)	
	a) Nose compartmentc) Radiator room				b) Compressor roomd) Under Truck				
660.	Main compo	onents of CC VCU & CR		brake s		d) all o	(of tł	d ne a	/
661.	Total no. of a) 8	keys in EM2 b) 10	2000 d c) 12		panel are d) 16		(d)
662.	No. of radia a) 01	ntor fans in W b) 02	VDG4 1 c) 03		d) 4		(b)
663.	No. of grid a) 01	blower moto b) 02	ors in W		oco d) 4		(b)
664.	a) Remainedb) gets enabc) Remained		o be di ıt to be	sabled enable	-	bled speed		enso d)	
665.	a) Excessiveb) Excessive	ing indicatio e main altern e breaking cu e air braking	nator cu urrent i				(b)
666.	a)No 3 & 6 b) all sander	only work rs work work irrespec			irection sanders o	of	(d)
667.	a) Aux. gen	rger rectifies erator output ernator outpu	t		mpanion alternate	or output	(a))

668.	BP continuity not getting to train from a working WDG4 loco a) Additional BP coc closed in train end b) BP angle coc defective c) in train end no BP pressure in loco d) All the above	(d)
669.	Type of lubrication system used in diesel loco a) Splash lubrication b) Force feed lubrication c) Force feed & splash d) Capillary lubrication	(b)
670.	To check lube oil level in engine sump, engine should be in a)Shut down b) 4th notch c) Idle d) 2nd notch	(c)
671.	Each traction motor is provided with a) One speed sensor b) one speed sensor & one temperature c) One temperature sensor d) Two speed sensors	(e se	b nso	r)
672.	Diameter of new wheel in WDG4 loco (in mm) a) 1090 b) 1092 c) 1100 d) 1080	(b)
673.	When there is communication link failure and micro air breaker is active, the loco will work a) as lead in b) only in trail mode c) in both modes d) in Helper mode	: (b)
674.	To recover PCS, it is compulsory to keep a) Both throttle handle in Idle b) any one throttle handle in idle c) Leading c/s throttle handle in idle d) Leading throttle handle in idle & reverser in Neutral	(d))
675.	The companion alternator runs at the same speed as Engine rpm a) Engine rpm b) Aux gen rpm c) Turbo rpm d) loc		a j)
676.	MR pressure dropping on run due to a) Air dryer defective b) Auto drain vale malfunctionic c) BC pipe damaged d) all the above	(ing	d)
677.	In WDG4/WDP4 locos Hand brake applies on wheels a)R4, R5 b) R4, L4 c) R5, R6 d) L4, L5	(a])

Brake cylinder pressure (in kg/cm²) in WDG4/WDP4 loco	(a)
a) 5.2 b) 4.8 c) 3.8 d) 3.5		
MR pressure not building up due to a) MREq coc in open condition b) EBT valve defective c) Defective MVCC d) All the above	(d)
Type of bogie in WDG4 locomotive a) BO-BO b) CO-CO c) BO1-1BO d) fabricated	(b)
Location of lube oil cooler in HHP locomotive	(a)
a) Equipment Rack b) Radiator room		
c) Compressor room d) Engine room		
Location of lube oil filter in HHP locomotive	(a)
a) Equipment Rack b) Radiator room	,	ŕ
c) Compressor room d) Engine room		
Location of fuel oil primary filter in HHP locomotive	(a)
a) Equipment Rack b) Radiator room		
c) Compressor room d) Engine room		
Location of water expansion tank in HHP locomotive	(a)
a) Equipment Rack b) Radiator room		
c) Compressor room d) Engine room		
LCC, ECP, Event recorder are located in	(c)
a) ECC3 b) ECC2 c) ECC1 d) None	·	·
In CCB 1.5 fault code will be displayed in	(c)
a)VCU b) PCU c) CRU d) BVC		,
In computer controlled brake system, operation of bail off rin	o will	nullify
	_	d)
c) Dynamic brake d) Conjunction brake	`	,
	a) 5.2 b) 4.8 c) 3.8 d) 3.5 MR pressure not building up due to a) MREq coc in open condition b) EBT valve defective c) Defective MVCC d) All the above Type of bogie in WDG4 locomotive a) BO-BO b) CO-CO c) BO1-1BO d) fabricated Location of lube oil cooler in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of lube oil filter in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of fuel oil primary filter in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room d) Engine room	a) 5.2 b) 4.8 c) 3.8 d) 3.5 MR pressure not building up due to a) MREq coc in open condition b) EBT valve defective c) Defective MVCC d) All the above Type of bogie in WDG4 locomotive a) BO-BO b) CO-CO c) BO1-1BO d) fabricated Location of lube oil cooler in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of lube oil filter in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of fuel oil primary filter in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room Location of water expansion tank in HHP locomotive a) Equipment Rack b) Radiator room c) Compressor room d) Engine room

688.	In HHP loco MU STOP				(b)
	a) ECC1 b) Control of	console 2	c) ECC2	d) ECC3			
689.	In HHP loco Control & I	FP switch is lo	ocated in		(b)
	a) ECC1 b) Control of	console 2	c) ECC2	d) ECC3			
690.	In HHP loco driver back	up valve is lo	ocated in		(c)
	a) Nose compartment	b) Co	mpressor co	mpartment			
	c) Driver cabin	d) Rac	diator room				
691.	In HHP loco braking cor	ntactors are lo	cated in		(c)
	a) ECC3 b) ECC2	c) ECC1	d) None				
692.	In HHP loco baggie type	e fiber glass fi	lters are loca	ated in	(c)
	a) Compressor compartn	_		compartment	`		
	c) Clean air compartmen	t	d) Equipme	nt rack			
693.	In HHP loco IPR (Invert	er Protection	Resistor) is	located in	(c)
	a) Compressor compartn	nent	b) Radiator	compartment			
	c) Clean air compartmen	t	d) Equipme	nt rack			
694.	In HHP loco, dust bin bl	ower motor is	s located in		(c)
	a) Compressor compartn			-			
	c) Clean air compartmen	t	d) Equipme	ent rack			
695.	In HHP loco Lube oil co	oler is located	d in		(d)
	a) Engine room	· •					
	c) Radiator room	d) Equipmen	nt rack				
696.	In HHP loco Lube oil fil	ter is located	in		(d)
	a) Engine room	b) Compress					
	c) Radiator room	d) Equipmen	nt rack				
697.	In HHP loco water expan	nsion tank is l	ocated in		(d)
	a) Engine room	b) Compress					
	c) Radiator room	d) Equipmen	nt rack				
698.	In HHP loco fuel oil prin	mary filter is l	ocated in		(d)
	a) Engine room	b) Compress					
	c) Radiator room	d) Equipmen	nt rack				

699.	To reset VCD Reverser should a) Neutral b) Forward c) Rev	<u>-</u>	(d)
700.	Purpose of APU is to save a) Fuel b) Lube oil c) cre	w d) all of the above	e (a)
701.	, <u>.</u>	ring with indication what may be only one of the order of	e the	
a)	2	b) Fuel Booster Pump defective		
703.	What is the reason if engine is a) Governor booster pump defec) No Governor oil in tank		(fecti	d) ve
704.	What is the reason if engine is a) SAR Inter lock defective c) Lube oil system defective (E	b) OPS Det	fectiv	ve
705.	What should be checked if enginal of the checked if enginal a) OSTA b) SAR c) Govern	ine shutdown with over speed? nor Amphenol plug d) Fuel pur		
706.	What should be checked if engial of a control of the checked of engial and of the checked if engial and			, ,
707.	What happens if Amphenol plug a) Engine Idle, Load meter zero c) Only engine idle	_		co?(a)
a)	Which item is used to reset AFL SW1 & SW2 b) SP1 & MCB1 & MCB2 d) MFPB	SP2	(a)
;	To get quick charging of BP wh a) SW1 &SW2 b) SP1 & c) MCB1 & MCB2 d) MFPE	-	(b)

a) BP For 5Kg/Cm ²	t observe (a) b) MR For 9.5Kg/Cm ²
c) Control air pressure for 5 Kg/Cm	,
711. The Procedure for isolation of A a) If isolation switch available sw c) Pack DMR	
712. How do you adjust control air pr a) A9 Feed valve b) SA9 c) Limiting valve d) HS4	Feed valve
713. Improper control air pressure leaa) Power Contactors flutteringc) Power Ground	b) Flash over d) All the above
714. If Head light fails what is the acta) Fail the lococ) Work with classification lights	b) Follow G&SR Rules
715. If engine shuts down with hot en a) ETS b) LWS c) SA	ngine alarm which safety device operates? R d) OPS (b)
716. If engine is running with Hot engal LWS b) OPS	gine alarm which safety device is operated (c) ETS d) SAR (c)
717. What is the effect of GR trippinga) Load meter zeroc) GR Indication with bell	g? (d) b) Engine comes to idle d) All the above
718. What is the effect of WSR?a) LM gradually drops to zeroc) Wheel slip indication with buzz	b) Sanders operate zer d) All the above
719. In AC/DC Locomotives engine is a) Main Generator c) Auxiliary Generator	is cranked by (b) b) Aux. & Exc. Generators d) Exciter Generator

720.	If C3W distriction (a) Wheel skin (b) Loco brake (c) Formation (d) Loco brake (d)	idding takes kes will not n brakes wil	place apply l not ap	oply	ed wro	ongly in goo	ods (a)
721.	If water con a)Less			e oil, viscosi mains unchar	•		be	_ (b)
722.	If water pun a)Oil	np tell tale h b) water		_		seal may be d) None	defect	ive ((b)
723.	If water pun a) Oil			eaking oil, _ c) both a &		l may be de		e (a)
724.	_	AC Governo d unloading b) G		ch Governor c) W	•		•	sor (a)
9	A goods train shall be	_and in BV		_ kg/cm ²		_	(b)	
	A goods train BV5.0, 4.5	kg/Sq.cm.		_			l be	(d)
en a) b) c)	Loco pilot she sure Brake powe To ensure ave to sign in Black To know the	r till the last railability of PC compres	vehicl Guard	e Van/SLR l in B.	st befo	re starting h	nis traii	n to (a	ι)

728. By applying A-9 formation brakes are not applying-Reason might be a) A-9 COC in working control stand is in closed condition b) Bogie COCs are in closed condition c) Train running at excess speed d) Last vehicle rear BP angle cock is in open condition
729. On run if Air Flow Indictor overshoots with jerk indicates(d) a) Air brake failure b) Loco failure c) Air flow indicator defective d) Train Parting
730. While working LE's Loco Pilot should to stop the Locomotive. (b) a) apply A-9 brake b) apply SA-9 and Dynamic Brakes c) apply Handbrakes d) Close the throttle to zero
731. Locos provided with Cast Iron brake blocks requires than the Locos provided with Composite brake blocks (a) a) More braking distance b) Less braking Distance c) frequent change of brake blocks d) BC pressure 3.8kg/cm2
 732. If train stopped in mid section on account of Loco Failure Loco pilot should doimmediately (b) a) Inform TLC/PCOR b) Put on Flasher Light, Apply A-9,SA-9, wooden wedges and secure formation. c) Ask for relief Loco d) Attend the Locomotive
733. Revised VCD cyclic timings are (a) 60, 8 and 8 seconds b) 60,17 and 17 seconds c) 170, 17 and 17 seconds d) 65,8 and 8 seconds
734. While working LE's Loco pilot should check and ensure before starting. a) Head light

735. Use of Dynamic Brake isa) To raise the engine RPMb) To control the train and to	— maintain constant speed at PSR, 7	(b) TS Rand	
Loop lines c) To nullify the conjunctional d) To stop the train	l brakes		
736. When LE loco brakes are not a a) SA9 COC b) MU2B c) F		(d)	
737. When loco working as banker a) Lead & close b) Trail &		tion COC	
 738. Immediate action when BP is train a) Open A9 COC in Non-working b) Apply D1Emergency c) Change the Control stand d) Adjust BP pressure 		trolling of	f
739. Important test should be done a) Brake feel test b) Brake pow	_	(c) d) All	
740. What test must be done by LP a) Brake feel test, 15KMPH c) Working of DB, 15KMPH	b) Brake power test, MPS		
741. If an Air Brake train stopped of reason, which brakes should be a) SA 9 only b) A9 only c	e applied	(c)	
742. After detaching Loco from for before working LE.	· ·	l be check (c	
a) Continuity testb) Tc) Loco Brake power testd) I	Traction test Leakage test		
743. While TOC of Loco, If Flashe would you take.	er light glows but does no blink, when	hat action (a)	
a) Loco is failedb) change the bulb	b) Will work to nearest shedd) Work normally		

	the loco wheel develops skid mark more
than 50 mm between section?	(b)
a) Fail the loco at site	b) Work with 30KMPH
c) Clear section with 20 KMPH	d) None
	on derailed vehicles of a train involved in
accident be allowed for on-ward jo	
a) Without check	b) After certified by TXR
c) With 10% less speed	d) 80 KMPH
746. What immediate action would yo pressure/vacuum on run?	ou take on noticing sudden drop of BP (c)
a) Stop the train	b) Contact Guard on VHF
c) Switch on Flasher light	d) Inform PRC
747. When Head light become defecti a) 20kmph b) 30kmph c) 40k	ve speed of the train shall not exceed ?(c) mph d) 50kmph
A9 application? a) Pressing BKIV foot pedal b) A	eleasing proportional loco brakes during (c) Application of DB None
	a consol of WDG4/WDP4 working as MU
trailing is a) Trail b) Lead c) Both	h d) None
750. If BP & FP pipes are wrongly coal Loco is failed b) Formation	
751. Immediate action of ALP when Ia) Apply D1emergencygraduallyc) Inform PRC	LP is not controlling of train? (a) b) Repeat signals d) Inform CCC
a) Clear section and stop	LP when loco fails on run in section? (c) b) Trouble shoot first d) Inform PRC

753. In case of Brake binding in air brake we you take other than releasing of brake'sa) Isolate DV b) Isolate BC c) Isolate	?	(a)
754. What is the initial charging time appropriate traina) 10-15 minutesb) 15-20 minutes	eximately of a single pipe a c) 20-25 minutes d) 25-	(c)
755. What is the initial charging time approa a) 10-15 minutes b) 15-20 minut b) c) 20-25 minutes d) 25-30 minut	tes	brake (train?
756. Are BP & FP angle cocks to be kept Of coach/wagon of an air brake train? a) Yes b) No c) None of the cocks to be kept Of coach/wagon of an air brake train?	PEN always in an isolated two above d) Above all)
757. What would you understand if needle a goods train in yard?a) Full brake applicationc) Loco side BP angle coc closed	of air flow indicator comes (b) Guard side BP angle co d) Brake application by G	c oc clos)
758. Loco should not be moved if water level a) 4 inches b) 3 inches c) 1 inch		(a)
759. Side load pads are provided in this typ a) Tri mount bogie b) Fabricated bogie		(b hban	*
760. How to reset the VCD penalty brakes ia) Bring TH to idlec) Both a and b	n Alco locos b) Reset after 35secs d) Engine will get shut do	(c own)
	ofter LOB operates S picks up	(d)
762. Eddy current clutch is located in a) Nose compartment b) Co c) Compressor room d) Radiator	ontrol compartment room	(d)

763.	ERF should be	oe put ON wh	en			(d))
a)	ECC is defe	ective	b) R1 &	R2 defect	ive			
,	TS-1&TS-2		· ·) Both b an				
- /			,	,				
764	If radiator far	n is not worki	ng durin	g continuo	us hot engine ala	rm sw	itch	ON
	ERF	b) LWS		_	_		a)	011
a,	LICI	O) LVIS	c) Divil	<i>u)</i> 110	. 11	('	. ,	
a) b) c)	In M.U. operation of BP will not BP will destored Loco brakes BP will not	destroy in an roy only in en s will not app	y positio mergency ly	n	e kept in open po	osition	(d)
766.	Engine shoula a) 24 hrs.				vn for more than hrs.	(c))
767.	In Alco locor a) Nose com c) Engine roo	partment	oil filter i		sser room	(d))
760	If MCDC no	vvvan huaalzan i	is in OEE	l magitian d	ymina anantzina a	naina	:11	
708.	-			-	uring cranking e	ingine		
	a) not Crank	(trire c) not Hold	d) a and b	(b))
760	In Alas 1sas	f., . 1	okomia la	منا المعددة		(-)	
709.	In Alco loco					(c))
	a) Nose con	-	•	Radiator ro				
	c) Compress	sor room	a) .	Engine roo	III			
770	Control oir n		nated by			(<i>a</i> >	
770.	Control air p a) A9 Feed	•	-	F1 selector	volvo	(d)	,
	*							
	c) NS 16 go	Veriioi	u) 1	Limiting va	iive			
771.	a) MR safet	of HP cylind y valve will b in valve will b	olow	-	osed position oler safety valve nd b	(will b	b) olow	
772.	*	ency switch s vel is less that us hot engine	n 1" from		ON' if b) Float is punc d) Both a and b		b))

773.	While working twin pipe air brak a) By passing to be done c) Detach the coach after clearing	b) Work with FP alone	mag (ged a))
774.	• • • • • • • • • • • • • • • • • • • •	P metal pipe is damaged b) Work further by passing the d) Work with FP alone	(coac	c) ch)
775.	Sensitivity of DV is a) 0.6 kg/cm2 in 6secs c) 0.6 kg/cm2 in 60secs	b) 0.3 kg/cm2 in 60secs d) 0.5 kg/cm2 in 60secs	(a))
776.	Insensitivity of DV is a) 0.6 kg/cm2 in 6secs c) 0.6 kg/cm2 in 60secs	b) 0.3 kg/cm2 in 60secs c) 0.5 kg/cm2 in 60secs	(b)
777.	In M.U operation in Air brake loc takes place through a) 28 VB c) A1 differential valve	co, conjunction working in lead b) C3WDV d) F1 selector valve	ing i		o will
778.	If A9 coc is closed in both contro a) BP will not create c) Loco brakes will not release	b) BP will destroy only	(in e	a) mer	
779.	In MU operation during A9 application Through a) C3W DV b) c) Additional C2relay valve	b) F1 selector		d b)
780.	While working an air brake train a) The train brakes will apply au b) Apply A9 and release after tra c) Keep A9 in Emergency positio d) Apply loco brakes alone	tomatically ain comes to stop		2)
781.	*		es p	lace	

782.	In MU trailing loco if 3/4" coc alone is kept in open position a) BP will not destroy b) BP will not create upto 5 c) Loco brakes will not apply d) BP will destroy only in er	.0 kg	g/c	m2	
783.	If SA9 COC is closed in working control stand a) loco brakes will not apply b) conjunction brake will not ap c) loco brakes will apply d) Bp will not create				
784.	Location of C3W DV in IRAB brake system is a) B control stand b) Nose compartment c) under truck d) A control stand	(b)	
785.	If brake system coc is kept in closed position. a) BP pressure will not create b) FP pressure will not create c) Both a and d d) MR pressure will not in			,	
786.	In IRAB1 brake system conjunction working of loco brakes take through a) 28 VB valve b) C3W DV c) A1 differential valve d) VA	-			
787.	If brake system coc is closed a) MR gauge will indicate zero c) Both a and d b) FP gauge will indicate d) BP gauge will indicate	zer)	
788.	In ALCO locos turbo super charger turbine is rotated by a) Gears b) Motor c) Exhaust gas d) Clutch	(c)	
789.	Main reservoir safety valve is set atkg/cm² a) 10.5 b)8 c) 9 d) 9.5	(a)	
790.	Reduction in BP pressure causes a) Brakes release b) Brakes slow release c) Brakes application d) MR pressure increasing	(c)	
791.	How many kinds of Brakes are provided on Diesel locomotive? a) 5 b) 10 c) 11 d) 9	(a)	
792.	In HHP locos turbo super charger turbine is rotated by a) Gears b) Motor c) Gear & Exhaust gas d) Clutch	(c)	

 793. The dead engine cutout cock, mounted on the air brake rack at the locomotive, limits air braking effort on a locomotive being in a train. When the cutout cock is set for a dead locomotive, the regulator a) Charges MR2 to5kg/cm2. b) B&C c) MR2 at1.76kg/cm2 from d) the brake pipe limiting brake cylinder pressure to 1.76kg/cm2 	haule ne pre	d dead
794. After cooler cooled air in air inlet casing is also called as a) Control air pressure b) Vacuum control air pressure c) HS4 pressure d) Booster Air Pressure	pressu	d) are
795. N 1 Reducing valve/Limiting valve is located in a) Radiator room b) Compressor room c) Nose compartment d) Rear compartment	(c)
796. The exhaust manifold is connected to part of the TSC. a) Gas Inlet Casing b) Intermediate Casing c) Turbine Casing d) Blower Casing	(a)
797. FTTM drives with a) Electric motor b) Belts c) Gear d) Hydraulicpres	(sure	c)
798. HP of WDP1 is a) 1400 b) 1800 c) 2400 d) 2300	(d)
799. Latest modified lube oil cooler is oftype a) Drum b) plate c) Paper d) Roll	(b)
800. Max. continuous current of Traction Alternator is Amp a) 1200 b) 1250 c) 1150 d) 1050	(b)
801. N1 reducing valve is used to control pressure a) BP pressure b) FP pressure c) Control Air Pressure d) BC pressure	(c)
802. Rail Guard height of WDP1 is a) 120mm b) 90mm c) 30mm d) 100mm	(d)

803.		r box & radiator fan ve-joy coupling am gear	ais (a)	
804.	To overcome TSC surging problem in a) 05 minutes b) 15 minutes c		vater wash done f d) 30 minutes (
805.	The efficiency of after cooler should n a) 0.5 b) 0.6	ot be less than c) 0.75	(b) d) 0.8	
806.	Tube of radiator core made of a) Brass c) Aluminium	b) Copper d) None of the ab	·	a)
807.		leakage testing dor si pressure si pressure	ne at (1	o)
1	If the difference of compression betwee then a) There will be more loading on torsion by fatigue sign will appear in crankcase c) fatigue sign will appear in piston pint d) all of the above	nal damper	more than 100 ps (d	
809.	NALCO-2100 is a a) Boron (b) based coolants c) Carboxylate based coolant	b) Sodium (Na d) None of the	(a) based coolant above	.)
810.	Drop in flash point of the lube oil indicated a) Fuel contamination c) Carbon deposition	cates b) Water contamina d) All of the above		.)
811.	Engine cooling water sample testing is a) T-30 & above schedule c) Yearly & above schedule	b) T-90 & abo	`	le)

812.	 Water sample should be collected a) in a clean container, with the engine b) from a point where the water flow c) after allowing the water to flow for d) All of the above 	is normal turbulent	(d)
813.) Loco right side None of the above	(b)
814.	There are three consecutive pipes oper pipe connection is for a) Fuel suction pipe c) Primary filter housing drain pipe	ening in the fuel tank, in which b) Fuel return pipe d) None of the above	mido ()
815.	How many blades are in Radiator coo a) 6 b) 8 c) 10 d)	oling fan? None of the above	(b)
816.	a) Diesel engine should be in running b) The reverser handle should not be c) The LOCAL CONTROL circuit be d) All of the above	condition in neutral position	(lition	d)
817.	Radar is fitted at a) Under truck at loco left side c) Under truck at engine right side	b) Under truck at loco rd) None of the above	(right s)
818.	To measure crankcase vacuum U-tub a) Modified oil pan cover c) Right side lube oil dipstick tube	e manometer is connected to b) Left side lube oil dip d) All of the above	`	d tub	
819.	,	ooled & lubricated by Lube oil Ione of the above	(b)
820.	·	r arm are used to operate naust valve ne of the above	(b)

		ibe oil system ompressed air syste	em	(a)	
	Top fuel line of the fuel manifold is a) Fuel supply line b) fuel re c) Fuel by-pass line d) None of			(a)	
823.	Fuel oil suction strainer is cleaned at a) 60 days b) 90 days c)	180 days d) No	one of the abo	`	b)	
824.	Minimum lube oil pressure of HHP Lo a) 8-12 psi b) 25-29 psi	-	d) 125	`	b i)	
825.	a) Both fan will pick up at slow speed b) 1 st fan will pick up at full speed wir c) 2 nd fan will pick up at full speed wir d) All of the above	l with interval of 20 th interval of 20 se	cond of last	(picl	d k up		
826.	In MEDHA control system Radiator fa a) Below 73°c b) Below 79°c	-	d) 96	(5°c	b)	
827.	What is the valve minimum compressor locomotive? a) 7psi b) 8psi	or oil pressure oil p		()	
828.	What is the valve of maximum Difference a) 08" of H20 b) 14" of H20 c)	ential pressure acro 25" of H20			(c)
829.	Before Placing Power Assembly which a) Condition of crankpin journal to be b) Condition of lower liner insert to be c) Condition of bottom surface of the d) all of the above	check e check		nec]	k (d)

830. While applying rocker arm shaft assembly, ensure that a) the shaft caps is placing with the short toe facing out b) the shaft caps is placing with the short toe facing in c) the word "IN" stamped side of shaft caps is placing inside d) both a & c	(d) e					
831. How many gears are fitted in accessory drive gear train? a) 4 b) 5 c) 6	(d) d) 7					
832. How many magnetic poles are connect in radiator fan circuit v speed? a) 8pole b) 12pole c) 16pole d) None of the speed connect in radiator fan circuit v speed?	(c)					
833. "Pee" of the HHP locomotive is checked in which schedule? a) T-30 & above b) T-90 & above c) T-180 & above d)	(b) Yearly & above					
834. In WDP4DH, DH stand for ? a) Duel cab loco with Hotel load facility b) Double head loco with Hotel load facility c) Disk brake loco with Hotel load facility d) None of the above						
835. How many cam shafts (segment) are fitted in HHP Locomotival 2 b) 4 c) 8 d) 18	ve (b)					
836. In leading loco of HHP MU, compressor loaded when a) MR pressure is drop below 8.3 kg/cm2 b) MR pressure is drop below 9.5 kg/cm2 c) MR pressure is drop below 9.8 kg/cm2 d) MR pressure is drop below 10.2 kg/cm2						
837. Minimum water flow pressure of HHP compressor is a) 4 GPM at 200rpm b) 10 GPM at 200prm c) 15-27 GPM at 950 rpm d) Both a & c	(d)					
838.Maximum consumable HP of HHP compressor during loading a) 2.2HP b) 22HP c) 23HP d) 70HP	g at 200rpm is (b)					

8	Valve leakage is indicated in 70psi air pressure c) 56psi air pressure	b) 60psi air pressur	re	(c))			
840.	During compression pressur has zero compression then a) Vent the gauge before re b) Remove the test valve be c) If plugged, clean and rein d) All of the above	moving it ody and insure that	it is not plugged)			
841.	Fins of lube oil cooler core i	s made of		(c)			
	a) Brass	b) Copper							
	c) Aluminium	d) None of the	above						
842.	Torque valve of hand hole c	over bolts is		(c)			
	a) 20-50 ft-lbs	b) 30-50 ft-lbs		·					
	c) 20-30 ft-lbs	d) 15-20 ft-lbs							
843	Torque valve of coupling di	se to rim holts is		(b)			
	a) 190 ft-lbs b) 295		5 ft-lbs d) 2	10 ft-1		,			
844.	844. Which of the following statement is true regarding filter element (d) a) Same filter element are used in fuel oil primary & lube oil filter b) Paper type two stage filter element are used in fuel oil primary & oil lube oil filter c) Long life fuel oil primary & lube oil filter is changed at 180 days d) All of the above								
845.	On load condition TSC is dr a) 5 th to 8 th notch c) 7 th to 8 th notch	b) 6 th to 8 th noted d) Only to 8 th not	h	(c)			
846.	Which of the following factors: a) Water contaminationc) Exposed bronze	or is consider for c b) Overly d) All of th	flaking	n (d)				
847.	Which crankshaft journal do a) 1 b) 6	pes not have a hole c) 10	for lube oil? d) None of the	(abov	b e)			

848.	No.1 crank pin jo	ournal is lubricated t	hrough	(b)	
	a) No.10 main be	earing journal	b) No.1 main b	earing journal		
	c) No.2 main bea	aring journal	d) None of the	e above		
849.	To test Clutch rot a) Anticlockwise c) Both direction		b) Clockwise dired) None of the abo	ection	(a)
850.	a) The roller are	is driving the turbing wedged in the small move to the wide elected	l side of the cam pl	-	(a)
851.	then a) Shim to be add b) Shim to be add	gnment found of aux ded in engine side b ded in blower side l nove from engine s bove	ooth foundation bold both foundation bol	(a) t	tive	
852.	Which of the foll a) Broken pistor c) Plugged after	_	for high exhaust ga b) Broken ex d) All of the	thaust valve	d)
853.	Specified limit of a) ±0.005"	main alternator rad b) ±0.010"	lial run out is c) ± 0.015 "	d) ±0.020"	d)
854.	Torque valve of i a) 60 ft-lbs	njector crab nut is b) 70 ft-lbs	c) 50 ft-lbs	d) 35 ft-lb)
855.	a) engine will crab) engine will noc) engine will cra	ot crake		(igh LLOB	d)
856.	Maximum permis	ssible thickness of l	ead wire in lead wir	re measurement	test	
	is				`)
	a) 0.13mm	b) 0.51mm	c) 1.73mm	d) None of the	abov	/e

857.	In spectrogra a) above 50p c) above 75p	pm	b) ab	e lube oil High ove 125ppm ove 20ppm	range of Boron (E	3) is (d
	Which type of a) Lead acid of Color (Color (battery			Locomotive el cadmium (NiCo um ion (Li-ion) b	
859.	Auxiliary gen a) To excite t c) To run FP	the field of	-		b) For Battery c d) All of the ab	~ ~
860.	Specific grava) 1.1	rity of fully b) 1.15	_	<u> </u>	D locomotive is .25	(d)
861.	What is the ra a) 8V 450 A c) 8V 155 A	h	ty of batter	b) 8V 500 A d) None of the		(b)
862.	What is the ra a) 450 Ah	-	•	y fitted in WDP c) 155 Ah	d) None of	
863.	In HHP Loco	omotive the	ere is how m c) 5	any yaw dampo d) 6	ers is fitted?	(b)
864.	Cylinder test a) Measure c) Measure	compression	on pressure	b) Mea	asure firing pressu of the above	(d)
865.	Color of NAl a) Pink		added coola Green	ant water is c) Yellow	d) Red	(a)
866.	Baggie filter a) Paper mat c) Oil coated	erial		ent material	b) Cotton mat d) All of the a	
867.	No of tube in a) 317	after coole b) 644	er of HHP L c) 688	cocomotive is d) None of the	ne above	a)

)

a) 35 KN b) 50 KN c) 15 KN d) 25 KN	(b)	1	
869. There are how many batteries are fitted in WDG4D Locomotive? a) 2 b) 8 c) 10 d) none of the a)	
870. What is sand capacity of HHP Locomotive? a) 12 cubic foot b) 15 cubic foot c) 18 cubic foot d) None of	(a of the a	_	/e
871. Aux. generator drive shaft coupler is renew during a) Yearly Schedule b) 2 Yearly Schedule c) 3 Yearly Schedule d) 6 Yearly Schedule	(c))	
872. How many MR tank are fitted in HHP Locomotive a) 1 b) 2 c) 3 d) 4	(b)
873. Which solenoid valve is energizes during idle speed a) A b) A,C c) A,D d) None of the a	(above	d)
874. Which solenoid valve is energizes during 1 st notch? a)D b) A,C c) A,D d) None of the above	(d)
875. Minimum flash point of RR-460 is a) 35°C b) 194°C c) 240°C d) None of the ab	ove (c)
876. Maximum consumable HP of HHP compressor during unloading a	t 950 r	pm	
is a) 2.2HP b) 22HP c) 23HP d) 70HP	(c)
877. There are how many "pee" pipe fitted in WDG4D Locomotive? a) 8 b) 12 c) 16 d) None of the a	(above	c)
878. How many poles are in main alternator (TA 17)? a) 6pole b) 8pole c) 10pole d) 1	(6pole	c)
879. How many gears are fitted in camshaft drive gear train? a) 4 b) 5 c) 6 d) 7	(d)

880. During changing power assembly, while pacing head seat ring it should be ensure (d) a) that the chamfered side of the head seat ring is facing up b) that the chamfered side the head seat ring is facing down c) that the word "TOP" stamped side of the head seat ring should be facing both a & c					
881. While placing power assembly on engine it must be ensures that a) that fork rod serial number and basket serial number must be same. b) that fork rod serial number and blade rod serial number must be san c) the blade rod serial number and basket serial number must be same. d) None of the above 					
882. In MEDHA control system hot engine alarm come at a) 73°c b) 79°c c) 85°c	d) 96°c	(d	1)		
883. Any engine coolant with a PH in excess of Is generally unsuitable for use in HHP Engine cooling systems. a) 5.5 b) 7.5 c) 9.5 d) 10.5	•	ered d			
884. Fuel oil suction strainer is a a) Paper type stage filter element c) Screen type metallic element d) None of the a		`	e) ner		
885. To protect FPM in HHP Locomotive a) Fuel oil suction strainer is provided b) Fuel oil primary filter is provided c) Fuel oil secondary filter is provided d) All of the above 		(a	ı)		
886. Fuel oil primary filter element is a a) Paper type two stage filter element b) Paper type filter in tin container c) Screen type metallic element		(a	ı)		
d) None of the above 887. Fuel secondary filter element is a a) Paper type two stage filter element b) Paper type filter in tin container c) Screen type metallic element d) None of the above		(b	')		

888.	Bottom fuel lin					(b)	
	a) Fuel supply								
	c) Fuel by-pas	s line	d) None	of the above	2				
889.	"Clunk Test" is	s used to det	ect				(a)
	a) Misfiring in	ijector	b) I	Lube oil leak	cage				
	c) Turbo surgi	_		Defective go	_				
	,	C	,	C					
890.	Function of 15	psi check va	lve in fu	el system is	to		(d)
	a) Retain back	pressure in	the fuel 1	manifold					
	b) Ensure prop	•	illing						
	c) Aid in starii	•							
	d) All of the a	bove							
QQ1	In HHP Locom	notive Brake	block to	wheel clear	ance in	no 2-3 1-5 w	heel.	dica	`
071.	is Locon	iotive Diake	DIOCK to	wheel clear	ance n	(c)	neer	uisc	
	a) 10mm b) 1	5.9mm c) 1	9.1mm t	o 31.8mm	d) Nor	` /	e		
		,			,				
892.	Length of both	side water p	oump suc	tion pipe ve	nt hose	e is	(c)
	a) 12"	b) 18"	c) 2	23"		d) None of th	e abo	ve	
000	3.6 . 111	0.0 1.01	•		10 11				
893.	Metallic pipe o	of fuel filter s			nifold a	issembly are jo			
	a) Welding		b) Forg	•	NVO.		(C ,)
	c) Brazing		u) Non	e of the abo)ve				
894.	White color in	humidity ind	dicator o	f air dryer is	indica	te	(c)
	a) Deteriorati	•		b) Dry air					
	c) Wet or con	•		d) None of	the abo	ove			
	Yellow color in	_	ndicator	_	is indic	ate	(c)
	a) Deteriorating			b) Dry air					
	c) Wet or conta	minated air		d) None of	f the at	oove			
806	Setting of fuel	oil seconder	v filtor R	v nace valv	Δ i c		(C)
690.	a) 15psi	b) 40psi	y IIIICI D	c) 70psi	C 18	d) 125psi	(C	,
	u) 15psi	<i>0)</i> 40psi		c) 70psi		u) 123psi			
897.	Setting of lube	oil soak bac	k filter re	elief valve			(b)
	a) 15psi	b) 40psi		c) 70psi		d) 125psi	•		

898.	Lube oil filter elementsat 8nitch &at		ved if filter tank	pressure re	eaches (a)
	a) 25psi,7psi	_	b) 35psi,15psi		`	,
	c) 25psi,15psi		d) 25psi,15psi			
	· · · · · · · · · · · · · · · · · · ·		- F F F			
899.	In HHP Locomotive if 24" of H20 than	Engine plus In	ertial vacuum re	eading is mo	ore than (c)
	a) Engine will shut dov	wn	b)	Engine will	come to i	idle
	c) Power will be reduce	ed to 6 th notch	d)	None of the	above	
900.	HHP Locomotive if En H20 than Power wil			ing is more	than 24" (a	
	a) EFS b) V	VFS c)	PCS	d) None of	the above	e
901.	In HHP Locomotive if it of H20 than Baggie fit a) EFS b) V	lter chocked up		•	gh (1	b)
902.	Atmospheric pressure is	s measured by			(b)
, o <u>-</u> .) Barometer	c) Hydromete	er	d) Pyrom	,
	u) Wanometer) Burometer	c) Hydromete	•	a) I jioni	CtCI
903.	Radiator fan rpm is mea a) Stroboscope b)	_	ter c) Decibel	meter	d) Pyrom	a) eter
904.	Maximum coupling rim a) 0.005"	n run out (TIR) b) 0.010"	of Compressor c) 0.015"	_	oling is (0.020"	b)
905.	In MEDHA control sys fan will drop at	tem when turb	o cool down cy	cle is runnir	ng, radiato	or (a)
	-	b) Below 79° c	c) Above	85°c	d) 96°c	
906.	In HHP locomotive Ble	ended Brake cu	t out switch is l	ocated in	(a)
	a) Engine control panel	b)	Nose compartm	ent		
	c) ECC2	d)	ECC3			
907.	Minimum permissible t	hickness of lea		vire measur	ement tes	t is
	a) 0.13mm		b) 0.51mm		(b)
	c) 1.73mm		d) None of th	e above		

908.	In HHP locomo	otive Cattle gu	ard is		(c)	1
	a) 2 ½ "			d) None of the	above		
909.	In HHP locomo			d) None of the		(b)	I
910.	In Lead wire te excee	st the differen	ce between th	ne two compresse	ed ends should	not	
	a) 0.13 mm	b) 1.31 mm	c) 0.19 m	m d) 0.51 m	m (a)	
911.	active, the Loc	co will work		and micro air brand both modes	(,	
912.	Engine model i a) 710G3B			T 46 PAC	d) None of	a) the ab	
913.	Type of Tractic a) 3-phase AC: c) both a & b		b) D(ive C series motors one of the above	(a)	
914.	In WDG4D loc a) Cab 1	omotive EECo) Cab 2			(compressor ro	b) om	l
915.	In HHP loco Ma) 7.14	R efficiency to b) 8.2	est is conduction c) 1	ted through1	mm orifice () None of the a		
916.	be kept in			BP leakage test Last position d) l	(c)		
	In WDG4 loco l a) Green zone & c) Yellow zone	Red zone	b) (f Green zone & Ye None of the above		a)	ı
918.	In WDG4D loc a) 16 CP		COS is provide c) ERCP	ded on d) BP CP	(c)	

919.	Value of Imp position is a) 0.012"-0.0	-			-	_		(b)
920.	water pump i a) Governor l c) Clutch gea	Drive gear		o) Cam C l) Crank		ear		(a)
	Temperature not exceed by a) 5° C	y				e main bearing (d) ne of the abo		hould
922.	Bubble in ret a) Lube oil pr c) Fuel pressu	ressure dropp	oing	b) Bo	oster p	ressure drop re dropping	,	c)
923.	Out of which a) OST	safety device b) EPD	_	omes to I HOD	dle d) PC	S	((1)
924.	In HHP locor a) governor d	_			•	er gear d) c	`	a) gear
925.	Accessory dr a) front end o c) front & rea	of the engine	b) 1			•	(2	ı)
926.	During EPD a) 120 second	_	e engine she seconds		be shut econds			
927.	TPU is fitted a) Harmonic c) Main Alter	damper		b) TS d) Co		on alternator	`))
928.	No of water pa) 1	b) 2	in WDP4D c) 4	locomo d) 5	tive		(t)
929.	In HHP locor a) to release l c) to release l	loco brake			rking	b) to release d) None of		n brake

930.	Crank shaft to	o cam shaft s	peed ra	tio is			(c)
	a) 1: 2	b) 2:1	_		one of th	ne above		
	Fuel tank cap a) 5000 litres c) 6500 litres	•	b)	motive is 6000 litres None of the	e above		(b)
932.	No of teeth in a) 58	n No 2 Idler g b) 64	gear is c) 69	d) 79)		(a)
933.	Compressor (a) 450 ft-lbs	_	_	er nut is tor c) 250 ft-lb	_	550 ft-lbs	(b)
934.	To operate w a) MR1	iper, air supp b) MR2		ceived from c) BP	d) FP		(a	ı)
935.	In HHP locor a) VCD ackn c) to apply tra	owledge		s used for b) to release d) None of			(8	a)
936.	Type of gove a) Woodwar c) EH govern	d governor		IP locomoti b) MCBG d) both a &			(d	.)
937.	In HHP locor a) right side f b) right side r c) left side fr d) None of th	Front end of the rear end of the ont end of the	he engin e engin	ne e			(c)
938.	During EPD shutdown in a) 120 secon						(d	
939.	The sight glaan a) Return sight c) empty sight	ht glass		om engine t b) By-pass d) None		ass	(b)
940.	Flywheel poi a) harmonic o				c) Mai	n alternato	(b r d) N	,

941.	In HHP locomotive crank sha) 1:1 b) 2:1 c	naft to came) 1:2		peed ratio is one of the above	`	a)
942.	Weight of WDG4 locomotive a) 126T b) 1237	ve is () 12	1.2 T	d) 117 T	(a)
943.	Piston of HHP loco is made a) cast iron with brazed on o b) cast iron alloy with chron c) stainless steel with chron d) cast iron	outer sleevene plating	es		(b)
944.	No 1 compression ring of H a) cast iron with brazed on c b) cast iron alloy with tin pla c) stainless steel with chrom d) cast iron	outer sleeve ating		made of	(c)
945.	Cylinder head of HHP locor a) cast iron with brazed on o b) cast iron alloy with tin pla c) stainless steel with chrom d) cast iron	outer sleeve ating			(d)
946.	Lower liner insert of HHP le a) cast iron with brazed on o b) cast iron alloy with tin pla c) stainless steel with chrom d) cast iron	outer sleeve ating		e of	(d)
947.	Head of exhust valve of HH a) cast iron with brazed on o b) cast iron alloy with tin pla c) stainless steel with chrom d) nickel chromium alloy ste	outer sleeve ating he plated		nade of	(d)

948.	Stem of exhaust valve of HHP a) cast iron with brazed on oute b) cast iron alloy with tin platin c) stainless steel with chrome p d) steel	er sleeves ng	(d)
949.	Tin plating is done on HHP pis a) improve thrust load bearing b) reduce liner scuffing c) aid in the break in process d) all of the above		(d)
950.		ated with b) Cylinder liner d) Piston	(c)
951.	Which oil is used in HHP loco a) Servo prime 76 b) Servo p	governor oress 100 c) Servo prime 57 d) bo	(th a	d 1 &	,
952.	In HHP locomotive governor is a) front of the engine c) loco pilot cabin	s fitted on b) rear end of the engine d) ECC-1	(a)
953.	Crank shaft gear damper is che a) 90 days schedule c) 360 days schedule	b) 180 days schedule d) 3 yearly & above schedule	(d)
954.	a) prevent over filling in case ofb) prevent over filling in case of	s provided in both side of the fuel of glow rod gauge is defective of fuel filling flow meter is defecti of wrong set or adjustment in flow	ve	(d	l)
955.	a) 0 – 50 ppm b) 0 –	ngine lube oil normal range of Zin - 20 ppm 10 ppm		Zn) d	

956.	Bubbles in fuel return sight glaa) air draw in suction suction b) the leaky fuel injector c) insufficient fuel supply d) none of the above	0 1	•	`	a)	
957.	Bubbles in the fuel return sigh a) air draw in suction suction b) the leaky fuel injector c) insufficient fuel supply d) none of the above	_			eate b		
958.	Bubbles in the fuel return sight a) air draw in suction suction b) the leaky fuel injector c) insufficient fuel supply d) none of the above		~		ind c		ates
959.	To charge feed pipe at 6 kg/cm a) F2 feed valve c) C2N feed valve	m ² , which va b) FT1 fee d) Any of t	d valve	(d)	
960.	Auto brake valve handle has a) 2 b) 3	c) 4	d) 5	(d))
961.	In HHP locomotive wheel to ba) 10 mm c) Independ upon the location	ł	o) depend upon th	ne location	b on (wheel
962.	In HHP locomotive FP pressur a) $6.0 \pm 0.1 \text{ kg/cm}^2$ c) $6.2 \pm 0.1 \text{ kg/cm}^2$	b) 6.1 \pm	0.1 kg/cm ² of the above	(a)	
963.	In HHP locomotive fuel oil sp a) right side, front end of the end b) right side, rear end of the end c) left side, front end of the end d) none of the above	engine ngine	s fitted on	(a)	

964.	During DBI testing of MR tank of HHI done at	P locomotive, hydraulic tes	sting b)	-	
		b) 1.5 times working press d) None of the above	`		,
965.	In HHP locomotive exhaust valve close a) 43.5° before BDC c) 107.5° after TDC	e at b) 43.5° after BDC d) 67° after BDC	((1)
966.	To operate ABD, air supply is received a) MR-1 b) MR-2 c) MR		`	l)
967.	TM blower air duct (bellow) is change a) 360 days schedule c) 3 yearly schedule	d at b) 720 days schedule d) 6 yearly schedule	((1)
968.	VCD alarm sound during a) T0 cycle b) T1 cycle c) T2	cycle d) T3 cycle	(()
969.	In which VCD cycle, yellow flashing 1 a) T1 cycle b) T2 cycle c) T3		d)	
970.	Engine lube oil sample analysis is done a) 30 days & above schedule c) Yearly & above schedule		lule)
971.	To Loosen the injector rocker arm adjuant a) Counter clockwise b) clockwise c) any direction d) None of the	e	(a)
972.	Main Purpose of cylinder head seat rin a) to maintain proper piston to head cle b) to provide water sealing between cy c) to absord the vibration of the cylinde d) All of the above	earance linder head & crankcase	(a)

	Which of the fol a) Governor rake b) Rack setting t c) Rotate injecto d) All of the above	e to be locked a ool to use to ad r rake adjusting	t 1" ljust ra	ke length	_		d)
ŀ	To advance inject a) rack adjusting b) rake adjusting c) Rack adjusting d) None of the ab	nut to be rotate nut to be rotate lock nut to be	e antic			(b)
	Cylinder head se a) Copper	eat ring is made b) Aluminium		c) Brass	d) Alun		d) m Bronze
	While placing cy a) chamfered sid b) chamfered sid c) chamfered sid d) None of the ab	e should be facted as the should be facted as the should be out	cing u	p	ure that	(a)
	In HHP Locomo a) 10"	tive length of bb) 12"	orake b	olock is c) 16"	d	(1) 18"	c)
	To decrease injects a) Rack adjusting b) Rake adjusting c) Rack adjusting d) None of the above t	g nut to be rota g nut to be rota g lock nut to be	te te anti			(a)
	Valve of couplin a) 0.020"-0.060" c) 0.080"-0.150"	' t	0.04	essor drive co 0" -0.110" 00"-0.120"	oupling (Fab		ed) is a)
	Compressor of Ha) Single stage co	ompressor	b) Two stage () None of th	-	(b)
	In HHP Locomo a) 30-35 psi b	tive normal into) 40-45psi		ler pressure i 0-55psi	is d) 60-65psi	`)

982. In HHP Locomotive if a) Problem in HP cylind c) Problem in both HP &	ler valve	b) Problem in Ll	P cylinder valve
983. In HHP Loco during ur a) Less than 3 minis c) More than 3 minis	b) 3Mins	ressure drop to 15 of the above	-20psi(a)
984. Crankcase vacuum of c a) Prevent oil from be b) Help to eliminate c c) Both of the above d) None of the above	eing drawn past the pi	iston ring	(c)
985. Intercooler of HHP Loc a) One-pass intercooler c) Multi-pass intercoole	b)	comotive is Two-pass intercoo None of the above	
986. In spectrographic analy a) above 150ppm c) above 15ppm	b) above 125ppm	High range of Co	pper (Cu) is (a)
987. In HHP Locomotive lin a) 12.8-20.2sct 100oC c) 10.8-20.2sct 100oC		0.18.3sct 100oC	(b)
988. In spectrographic analy indicates a) internal water leakage) cylinder liner wear	ge b) cylinder he	l. High range of A ad seat ring wear g, crank pin bearing	(b)
989. Permissible limit of roc cylinder is a) 0.006"	eker arm shaft support b) 0.010"	t height mismatch c) 0.12"	for any one (a) d)0.015"

990. If rocker arm shaft support height for any one cylinder is mismatch greater than 0.006" it will lead to (a) a) cams haft lobe distress and brakeage of rocker arm studs b) crank shaft distress c) crankcase distress d) None of the above						
991. Piston to cylinder head minimum clearance in new power assembly is (b) a) 0.13mm b) 0.51mm c) 1.73mm d) None of the above						
992. Oil control ring to head standard clearance is a) .002"006" b) .002"-008" c) .002"-010" d) .002"-012"						
993. If LLOB is operated condition then						
994. Torque valve of equipment rake foundation boil is a) 455ft-lbs b) 400ft-lbs c) 165ft-lbs d) 210ft-lbs						
995. In WDG4/4D Locomotive conjunction loco brake application time is (c) a) 7-9 seconds b) 8-12 seconds c) 16-30 seconds d) 15-20 seconds						
996. Sleeves are provided in engine mounting boils of (b) a) alternator side bolts (b) accessory side bolts (c) both alternator & accessory end bolts (d) None of the above						
997. How many engine mounting bolts are fitted in accessory end (b) a) 4 b) 6 c) 8 d) None of the above						
998. Torque valve of Water jumper saddle strap nuts is a) 15ft-lbs. b) 20ft-lbs c) 30ft-ibs d) 35ft-lbs						
999. Shim of radiator core is renew during a) Yearly & above schedule c) Three yearly & above schedule d) Six yearly & above schedule						

1000. Value of compression pressure reading of HHP locomotive (c) a) 200.300psi b) 275.300psi c) 275-350psi d) 250.375psi

1001. What is the minimum clearance required for wheel to brake block during release? (a a) 10mm b) 8mm c) 6mm d) 4mm)
1002. Normal TSC rpm of 4500 hp HHP Locomotive is a) 15000-20000rpm b) 18500-21500rpm c) 18500-25000rpm d) 18500-20000rpm)
1003. Minimum TSC rpm of 4500 hp HHP Locomotive at full load is a) 1500rpm b) 15932rpm c) 18400rpm d) 018400prm	c)
1004. Scavenging lube oil pump minimum pressure at 8notch is a) 1.4kg/cm2 b) 4.5kg/cm2 c) 5.2kg/cm2 d) 7.0kg/cm2	a)
1005. Normal air box pressure (BAP) in HHP Locomotive at full speed & full load is a) 1.1kg/cm2-1.75kg/cm2 b) 1.5kg/cm2-1.95kg/cm2 c) 1.4kg/cm2-1.75kg/cm d) 1.4kg/cm2-1.50kg/cm2 (c)	
1006. In HHP Locomotive normal lube oil inlet Temperature is a) 70-90oc b) 70-80oc c) 80-90oc d) 80-99oc	a)
1007. Air box pressure isthan the exhaust manifold pressure throughout the speed range a) 2psi greater b) 5psi greater c) 2psi less d) 5psi less	a)
1008. Normal height of lube oil relief valve safety plate to valve guide is a) 1" b) 1.5" c) 2" d) 2 ½")
1009. The purpose of the lube oil relief valve is to a) Protect the scavenging pump from over loading b) Protect the piston cooling oil pump from over loading c) limit the maximum pressure of the lube oil entering the engine oil system d) All of the above	c)
1010. What is the piston travel of brake cylinder in WDM3A loco? (c) a) 60 to 85 cm b) 85 to 95 cm c) 95 to 105 cm d) 90 to 100 cm	
1011. In WDG3A locomotives 3/4" COC(BP COC) is located in/at a) Nose compartment b) Driver cab c) Short hood control stand d) None of the above	
1012. One of the following equipment is in Nose compartment (c) a) MR1 b) MR2 c) Control air pressure reservoir d) All the above	
1013. "D" solenoid in the Governor is also called (a) Shutdown solenoid b) Cranking solenoid c) Tripping solenoid d) Safety solenoid	
1014. When installing lube oil relief valve on engine, make sure that the bypass port is positioned in the a) downward direction b) upward direction c) left side direction d) right side direction	a)

1015.	In ALCO Locos Fuel oil crossover flexible pipe is located in a) Radiator room b) Nose compartment c) Power takeoff end d) Free end		c)
1016.	In spectrographic analysis of engine lube oil normal range of Aluminium (Al a) 0-20ppm b) 0-15ppm c) 0-10ppm d) 0-05ppm (d	()is (
1017.	Fuel pump motor is not working though the all circuit breakers are switched ON, the immediate reason could be a) ERF not closed		d)
1018.	If white smoke is emitting from exhaust chimney, what could be the reason? a) Water mixed with fuel oil b) Governor oil mixed with fuel oil c) Lube oil mixed with fuel oil d) None of these	P(a)
1019.	Number of brake blocks are provided on WDM2 a) 16 b) 24 c) 32 d) 22		b)
1020.	The number of Brake cylinders provided on WDM2 locomotive a) 6 b) 8 c) 10 d) 12		b)
1021.	Pre-lubrication is required if an engine that has been shut down for more than hours a) 48 b) 24 c) 12 d) 8		a)
1022.	Lube oil dipstick gauge of WDG3A is having liters capacity a) 400 b) 380 c) 600 d) 500		c)
1023.	In HHP Locomotive, lube oil strainer box is fill up with lube oil within a) 30 seconds b) 45 seconds c) 60 seconds d) 75 seconds		(b)
1024.	In Alco Locos Lube oil Cooler is located in (a) Radiator room b) Compressor room c) Generator room d) Under	`	a uck	*
1025.	In ALCO Locos Lube oil Filter drum is located in (a) Nose compartment b) Generator room c) Engine block d) Radia	•	d ro	*
1026.	What is the Safety Device provided in the Lube oil system? a) GFOLR b) OSTA c) LLOB d) LWS		c)
1027.	When LLOB trips, the engine will a) Raise b) Shutdown c) Comes to Idle d) Hunting		b)
1028.	Electro Pneumatic Governor is located in a) Compressor room b) Radiator room c) Nose compartment d) Rear compartment		a)
1029.	From where the control air pressure will get air pressure (a) MR2 b) MR1 c) BKTs d) J filter	,	b)

1030.	MR (compress a) 8	ed air pressure) b) 9	Unloading wi c) 10	ll takes j d) 11	place atkg /cm	2 (c)
1031.	-	ed air enters to I valve b) MR		_	d) 3 / 4" coc	(c)
	A pressure cap opens at approx a) 5 PSI	•		r tank fi d) 70 F		(c)
1033.	Cooling Water a) 900	capacity in WI b) 910	DM2 locomotive) 1300	ve is d) 1210		(d)
1034.	In WDM2 engal	ine, the Water p b) Pulley	oump is driven c) Gear	by	d) Belts		c)
1035.	_		er b) Fail	the loca	o duly observing the wer notches	(water	b lev) el
1036.	Hot engine ala a) 60	rm (HEA) will b) 70	come at°(C in WD d) 80	oG3A	(c)
1037.		8 th notch worki		b) Exce	arm indication will g ess load water in expansion t		c)
1038.	*	eted to ide return head side return hea			er expansion tank the above	(b)
1039		e switched auto t			ng accidents c) Marker light	(d)]	b Doo) om light
1040.		loco shall be _ b) 5.0, 4.7			5.7 kg/Sq.c	m. (c)
1041.	What is the col a) Black	lor code for the b) Red	B.P pressure p	-	ow	(c)
1042.	DV isolating h a) Vertical				is in isolated position d) None of these	on (b)
	_	to stub shaft, mi	inimum clearar c) 0.017"		d) None of the abov	e		(a)
a)	-		-	ht Bank	top deck cover		(b)

1045. When the speedometer of a running to a) Fail the locomotive b) Work the troc) Work further with50kmph	rain engine becomes defective (b) rain by reducing 10% speed from Booked speed d) Ask for the relief engine
1046. The speed restriction that has to be obengine fails on BG iskmp a) 50kmph b) 30kmph	h.
1047. How much BP should be ensured in the air brake train?a) 6cm2kg,4.9 kg/cm2c) 5kgcm2, 4.8kg/cm2	he engine and BV before staring (c) b) 5.2kg/cm2, 4.7kg/cm2 d) 4.8kg/cm2,5kg/cm2
1048. Low lube oil shutdown by the govern a) HOD (Hot Oil Detector) c) EPD crankcase pressure portion	b) EPD low cooling water pressure portion
1049. Coolant water capacity in HHP locon a)1000 b) 1100	c) 1045 d) 1145
, ,	ble suspension ne of the above
1051. In 710G3B Engine maximum permiss lube oil and water is a) 10°c b) 11.1°c	c) 16°c d) None of the above
 1052. Identify the problem in brake power 'a) A9 coc in both control stand in op b) MU2B in Lead position & 3/4"coc c) For loaded rake the Load/empty d d) All the above 	en condition e in open in Rear loco
1053. If MU loco's get parted through whice a) SA-9 b) A-9 c) F1selector	
1054. The effective Brake Power in case of should be% and enroute can be a) 100, 85 b) 100, 100 c) 100,	not less than%
1055. The following shall not be used for exequipment. a) dry chemical powder b) CO2	
1056. In HHP locomotive hand cranking arra) Left rear side of the enginec) Both side, rear end of the engine	angement is provided on the (c) b) Right rear side of the engine d) None of the above

1057.	What are the present VCD cyclic tina) 60, 8 and 8 secondsc) 170, 17 and 17 seconds	_	b) 60,17 and 8 se	7 and 17 seco	onds	(a)		
1058.	. What combination of trains are Perm a) Empty/Empty b) loaded/Empt		_	long haul tra ed/Loaded	ain ? d) All	(the	d abo	,		
1059.	What condition is to be observed in a) COC'sc) Load meter overshooting	b) Lub	e oil pre		king	(c)		
1060.	. What is the position of 3/4coc's in bo a) close/close b) open/close c)	th loco w Both o		rying dead lo d) none of th		(b)		
1061.	. What is the position of C3W/DV/28 loco? a) open/open b) close/open c) Box				carrying	; de	ad a)		
1062.	. What is the position of MU2B & BP a) Lead & close b) Trail & op			n banker locc c) Trail & clo		(d)	a No) ne		
	. Fuel oil secondary filter is changed a a) 60 days b) 90 days	c) 180	days	d) None of th	ne above	(b)		
	. Fuel oil primary filter is filtered up to a) 600 μ b) 13 μ c) 2 μ		d) None	e of the above	e			(b)
	. Fuel oil suction strainer is filtered up a) 600 μ b) 13 μ c) 2 μ		d) None	e of the above	e			(a)
	. Fuel oil secondary filter is filtered up a) 600 μ b) 13 μ c) 2 μ		d) None	e of the above	e			(c)
	. Minimum lube oil pressure of HHP l a) 8-12 psi b) 25-29 psi c) 20-			osi				(a)
1068.	. What should be the position of BP & coach/wagon of an air brake train? a) Open b) Close c) No			in an DV iso lose & FP op		(a)		
1069.	. What will happen when isolation has 58wagons are in isolation conditiona) No change in brake power b) loac) Poor brake power d) inc	on?	reduced	I	nation of	(c)		
1070.	 While carrying dead locoto be a) Conjunctional brake application in b) Conjunctional brake application in c) Conjunctional brake in both locode d) All the above 	in rear lo in leading	co			(d)		

1071.	How many ETF a) 1	are fitted in H b) 2	IHP locomor	tive d) 4		(b)	
1072.	The internal para) Fuel oil	,	,	lubricated	by d) None of the	ahova		(a)
1073.	In HHP locomo	tive left side ro	ocker arm ar	e used to o	perate	(b)	
	a) Inlet valve	b) Exhaust v	,	Injector	ŕ				
1074.	locos?				brake self test is	n GM (d)	
	a) Secure lococ) Detach loco		b) Secure f d) Secure b		't detach from fo	ormation.			
1075.	a) Disable wo	rking control sking control st	tand & enab	le nonwor	OG 4 / WDP 4 loking control starting control stan	nd	a)	
1076.	Manual sander a) 30.6kmph	will be working b) 19.5kmph	_	_	-	(b)	
1077.	Manual Sandin power/wheel c a) 30kmph	g is cutout who ereep mode, and b) 10kmph		speeds abo	ove	(c)	
1078.	If hot oil detect a) Idle b) S		ngine comes) Load mete		No effect	(b)			
1079.	Bail off is prov a) Direct brake c) Formation b	e application			te application	(b)	
a	In HHP locomo i) Oil separator of Exhauster			cuum	fitted b) CCM d) all of the abo	·	a)	
1081.	Oil lubricated 7 a) WDM 2	ΓM gear case is b) WDM 3D	s provided in c) WD0		d) WDP 4	(d)	
1082.	In WDG4 loco a) Accessories c) Engine pow		b) (Compressor ECC3	r room	(a)	
1083.	a) Truck isolat	G4 if GR (pownion is to be do beed sensor is to	ne	b) I	Itimes within 10 Defective TM is the Loco			a) l	

1084.	In WDP4/WDG4 loco if LLOB is a) Crank b) Not Fire c) N	in tripped j Not hold	position during cranking engin d) Not crank	e w	ill (d)
1085.	In WDP4/WDG4 loco defective span a) False locked axle indication is b) GR trips more than 3 times with c) Any one TM is defective d) Crow bar fires	experience	ed	(a)
1086.	In WDP4/WDG4 banker loco wor a) Lead b) Trail c) H	king C/S, ILPR	L/T switch should be kept in d) Test	(c)
1087.	·		ective truck	(a)
1088.	In WDP4/WDG4 dead loco for quality a) MR equalizing cock c) BP equalizing pipe	b) BC	e of loco brakes open one side equalizing cock h a & b	(d)
1089.	In WDP4/WDG4 banker loco wor a) FS position b) Run position		ol stand A9 should be kept in delease position delease po	•	a ositi	/
1090.	Oil visibility in bye pass sight glas a) Primary filter is choked. b) S c) Lube oil filter choked. d) I	Spin on filt		(b)
1091.	In WDP4/WDG4 loco choking of a) Filter condition gauge. b) (c) Both A & B	Dil visibili	imary filter is indicated by ty in bye passes sight glass. visibility in sight glass near to	(eng	a	,
1092.	In WDP4/WDG4 Loco when lube a) Hot oil detector operates b) I	-		(a a	d nd b	<i>'</i>
1093.	In WDP4/WDG4 loco if water pre a) LLOB trips c) Crank case pressure button wil		ss b) Low water pressure button d) Both a and b	(wil	d l tri	/
1094.	In WDP4/WDG4 loco when PCS a) MAB breaker should be recycle c) Air drier breaker d) Both a a	led b) TC		(a)
1095.			ir brake self test I TCC2 c) Recycle Air drier b	(reak	a ker.)
1096.	In WDP4/WDG4 loco engine shown a) Low water button is tripped c) LLOB is in tripped	b) crai	cranked when nk case pressure button is tripp TA is tripped	(ed	b)

1097. In WDP4/WDG4 loco load meter will not respond if a) GFB trips b) AGFB trips c) Both a & b d) MAB trips
1098. In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle (c) a) Isolate the defective TM b) Isolate the defective speed sensor b) Fail the loco immediately d) Isolate the defective truck
1099. To measure the speed of HHP locomotive is used a) Axle generator b) Pulse generator c) Radar d) None of the above
1100. Location of Battery Knife Switch in WDG4 Loco is a) Nose Compartment b) In Accessories Room c) In LP's cab d) Loco Left Side Foot Plate
1101. In WDP4/WDG4 loco while conducting BP leakage test L/T switch should (c) be kept ina) Lead position b) Trail position c) Test position d) Helper
1102. If FOP is dropping due to filter choked a) By pass secondary Filter b) By pass primary filter c) Both a & b d) Dummy FIP
1103. Bogie configuration of WDP4 Locomotive is a CO-CO b) BO1 - 1BO c) BO-BO d) BU-BU
1104. Axle Load of WDG4 Locomotive is a) 20.5 T b) 22.5T c) 25T d)19.5T
1105. Axle Load of WDP4 Locomotive is a) 20.5 T b) 22.5T c) 25T d) 19.5T
1106. HHP Loco Hand brake is applicable for Wheel No. (c) a) L4,R4 b) L2,R2 c)R4,R5 d)R3,R4
1107. Primary stage suspension in WDG4 is accomplished by a) Shock absorber b) helical coil spring c) Damper d) Load pads
1108. Length of WDP4B locomotive is a) 22.98 meters b) 21.24 meters c) 21.7 meters d) None of the above
1109. Dynamic brake grid motor is a a) DC motor b) Single phase AC motor c) Three phase AC motor d) None of the above
1110. According to RDSO specification, radiator core leakage test is done at psi a) 20 b) 50 c) 75 d) 90 (c)
1111. Secondary stage suspension is accomplished by a) Load pads b) damper c) rubber compression springs d) helical coil spring

1112.	Traction Motor gear ratio for MAC is a) 17:77 b) 18:90 c) 17:90	d) 16:90	(c)
1113.	WDG4 Loco is provided with type a) three-axle bolster lessbogie b)Tr	_	(i co	a il)
1114.	is the main power supply of CCB for t a) DCU b)VCU c) PC		(b)
1115.	Brake cylinder pressure maximum isK a) 3.8 b) 3.2 c) 2.2	g/Cm2 during backup system d) 5	(a)
1116.	Length of radiator cooling fan blade is a) 52" b) 48" c) 23"	d) None of the above	(_	a)	
1117.	Emergency brake application is accomplish the lower left of each console a)D 1 emergency valve b) In c) Direct Brake valve d) co			a)	
1118.	MRPT-main reservoir pressure transducer a) Between MR1&MR2 b) MR1 pressu	•	,) essure
1119.	The air brake system, trips locomotive con relay initiates a safety control or en a) PCR b) FPR c) WSR		(a)
1120.	The EM2000 reads main reservoir air press a) BPT b)BCT	ure from transducer. c) ERT d) MR)
1121.	What is the code for Brake pipe control fail a) 8A b) 6A c)10A	ure in self test ? d) 22A	(b)
1122.	What is the code for Brake pipe leakage fai a) 6B b) 10B c)6F		(a)
1123.	What is the function of KE valve in CCB sy a) provides pneumatic back Up c) Creation of FP	b) Creation of BP d) Emergency application	(a)
1124.		er pressure is used in place of peed is more o have effective brake power	(c)
1125.	Where the booster air pressure stored in Tw a) In air box b) manifold c) tar	_	(a)
	If local control circuit breaker is trip, the local LLOB by FECO c) MUSD	co should be shut down by			(a)

1127.	Loading and u a)MVCC	nloading of cor b) EPG	npresso	r is controlle c) RGCP	•	in WDC e of the ab		a)		
1128.	After cranking cooling before a) 20				s for starte	er motor	(c)		
1129.	Do not crank ea) 30seconds	engine for more b) 1minutes			_	rs in HHP.	(d)		
1130.	Starting fuse is a) Left side of c) Both side of	the locomotive		b) Right sid d) None of t		comotive			(a)
1131.	8 th notch engir a) 1050	ne RPM of WD b) 1000	G4 c) 954	d) 9	15		(c)		
1132.	Buffer Height a) 1105 mm to c) 1105 mm to	o 1000mm		b) 1105 mm d)1125 mm			(b)		
1133.	Maximum con a) 140	tinuous speed ob) 150	of WDP c) 160			kmp	h (c)		
1134.	How many numary 8	mber of batterio	es are th	ere in WDP4 d)6 l		ive	(b)		
1135.	Low idle RPM a) 210	I of WDP4 eng b) 200		c) 220	d) 215		(b)		
1136.	Lube Oil capaca) 9	city of Compre b) 8	ssor in V c) 10	WDP4 is			(c)		
	Standard side 1) 584 mm	buffer projection b) 635 mm	on is	c) 650 mm	d) Non	e of the ab	`	b))		
a)	Battery box is latery box is later box is latery box is later box is latery box is later box is latery box is late	e locomotive	VDG4	b) Right sid d) None of t		comotive	(a))		
1139.	Maximum rectal a) 250	tified output vo b) 230	oltage of c) 200	-		· is v	olts (b)		
1140.	Maximum rect	ified output vol b) 2500	tage of 'c) 2700		ernator is_ d) 2600		lts (d)		
1141.	Minimum con is kmph	-			effort of V		omotive	e((d)		
	a) 15.5	b) 20		c) 10.0		d) 22.5					

1142.	HP of WDG4	Loco motive is		HP		(a)
		b) 3900		d) 3939		`		
1143.	Normal idle R a) 290	PM of WDP4 I b) 269	Engine is c) 250	d) 296		(b)
1144.		Pump in WDF pump b) Air		c) Centrifu	gal Pump	d) Gear)
1145.		tripping rpm is) b) (112		c) (1045 ±	20)	`	c ± 20	,
		rnor drive gear t 8" b) 0.008"			- 0.020"	d) 0.007°	-0.	(a) 025"
	•	valve is located b) loco right		ine right side	e d) non	e of the ab	ove	(b)
1148.	_	of Starting fuse b) 1000 amps		d) 800 amp	os	(d)
1149.	How many pos a) 3	b) 2	ME/START sw c) 1	ritch has d) 4		(a)
1150.		EM2000 re less than the 00 b) less		iested.		(b ss tha	,
1151.		perature is great ep the traction r b) 100				rter will (a)
1152.	Maximum star a) 120T	ting effort of W b) 54T	DG4 is c) 22T	d) 44T	-	(b)
1153.	a) To cut out	R (brake warni Dynamic brake rking of Dyn br	e in case of Ove	er current	b) Protect d) All the	, ,	a)
1154.	a) To limit tra	L (Tractive effort to 2 active effort to 1	200KN or 20T	b) To limit	tractive ef			
1157.	b)to reduces c) to reduces	g of VCU is 73.5 V DC to fi 73.5 V DC to file 72 V DC to file 110 VDC to file	iltered 24 VDC tered 25 V DC	to CRU to CRU		(b)

1158. The main functions of EM2000 a) Logic b) Excitation		d) All of the abo	ve (d)		
1159. How Crank case vacuum is ma a) Blower b) Crank case		_	es(EMD)? (No vacuum c				
1160. Fuel oil primary filter is located a)Generator Room b) Engi		c) Radiator Room	(n d) Equip	d omen		ke	
1161. If the pressure across the primare valve begins to open, bypassing a) 1.6kg/cm2 b) 5.3kg/cm2	ng the primary	fuel filter.	* -	ss d)		
1162. When fuel oil pressure at the sp bypass valve opens fully and a) 5.3kg/cm2 b) 4.2	fuel bypasses t	the engine and retu	rn to fuel tank			ters	S
1163. What is the Fuel oil tank capaca) 6000 b) 5000	eity in WDP4D c) 3000	locomotive in litr d)5500	es. (b)		
1164. How many Power Contactors a a) 7 b) 9	are available in c) 8	WDG4 Locomoti	ve? (d)		
1165. WDG4 Engine idle RPM a) 469 b) 369	c) 269	d)360	(c)		
1166. LOPS setting of WDG4 loco in a) 25-29 psi b) 8-12 psi		d) 20- 30PSI	(a)		
1167. LOPS setting of WDG4 loco in a) 10 - 12 PSI b) 8-12 psi		d) 20- 30 PSI	(b)		
1168. The purpose of Turbo lube purpose of Turbo lubricate the Turbo c) To lubricate turbo Bearing	b) To remove	the residual heat	cranking is (c)		
1169. Spectrographic analysis of lube a) viscosity of lube oil c) wear metal elements present i		ted to determine b) PH value of lu d) all of the abov			(c)
•	in indicates b) fuel oil con d) all of the ab				(b)
	tion of lube oi b) LLOB oper d) all of the a	ation			(d)
1172. In "RR 520 MG", "20" indicate a) total base number of lube oil c) generation of lube oil	b) tota	l brinnel number o le of lube oil	f lube oil		(a)

1173. Lube oil sample should be collected by	(d)
a) opening pre-lube dummy b) opening no. 5 oil pan hand hole cover			
c) a hand syringe inserted through the dipstick hole d) all of the above			
1174. No of online nute fitted in accessomy drive housing	(a	`
1174. No of spline nuts fitted in accessory drive housing a) 45 b) 24 c) 73 d) 57	(d)
a) 45 b) 24 c) 75 d) 57			
1175. Turbo lube pump should be running forminutes after engine is shutdown i	f er	ıgir	ıe.
was running at 5th notch and higher for 60minutes prior to engine shut down. (
a) 15 b) 35 c) 20 d) 45		,	
1176 Number of brake blocks are provided on WDG4 (b)		
a) 16 b) 12 d) 32 d) 22			
1177. Lube oil dip stick gauge capacity in WDG4 locos isliters. (c)		
a) 400 b) 550 c) 625 d) 700			
1170 MD Cooling spile in WDC4 is leasted at	`		
1178. MR Cooling coils in WDG4 is located at a) Under truck b) Engine block c) Radiator room d) Compresso) ~ " "	000	_
a) Order truck b) Eligine block c) Radiator foolin d) Compresso	ЛΙ	JOII	.1
1179. Maximum Stall Tractive Effort of WDG4 Locomotive is (a))		
a) 540KN b) 400KN c) 200KN d) 250KN	,		
a) 2 10111			
1180. How many water pumps available in EMD locomotive engine? (d)		
a) 1 b) 4 c) 3 d) 2			
1181. If the coolant temperature reachesdegree C, the locomotive will go			
)		
a) 95 b) 92 c) 85 d) 100			
1100 EDD: 1	,		
1182. EPD is Located at (a a) Engine Accessories Room b) Engine room)		
a) Engine Accessories Roomb) Engine roomc) Radiator Roomd) Equipment rake			
c) Radiator Room (d) Equipment take			
1183. The EM2000 will consider a temperature probe failed if it reads (b)		
a) Less than -155 degrees C or greater than 150 degrees C	,		
b) Less than -55 degrees C or greater than 150 degrees C			
c) More than -55 degrees C or greater than 150 degrees C			
d) Less than -55 degrees C or greater than 250 degrees C			
1184. The system maintains the coolant temperature within a predetermined			
· · · · · · · · · · · · · · · · · · ·)		
a) 79° C to 85° C b) 85 to 95 c) 92 to 100 d) 72 to 80			
1105 Wile (* 4 * 1) - (* 6 11 - 1) - (* 6 6 9 - (* 6 11 - 1) - (* 6 6	,		
)		
a) LED b) Buzzer			
c) Fuse blown out Indicator will project out			
d) Message			
-, ··			

1186. What precaution should be taken for a) Secure loco b) Secure for d) Secure both, close BP & FP COC	mation c) Detach loco and secure	loco	os?(d)
1187. What should be done first for changin a)Disable working control stand & e b) Enable working control stand & c c)As per convenience d) None	enable non working control stand	?(a)
1188. What should be the position of L /T s a) Trail b) Lead	witch in trailing loco of WDG4/WDI c) Both d) Of		IU?	(a)
	or Passenger Train detained more that Continuity test ake Power test.	n 30 (min b	
1190. AGFB Stands for	(b			
a) Auxiliary Generator Field Buttonc)Additional Generator Field Buttor				
1191. BL KEY Stands for a) Button Lever Key c) Box Lever Key	b) Big Lever Key d) none	(c)
1192. CRU Stands for a) Control Relay Unit c) Constant Relay Unit	b) Centre Relay Unit d) Computer Relay Unit	(d)
1193. DCL Stands for a) Direct Circuit Link c) Digital Current Link	b) Direct Current Link d) Digital Circuit Link	(b)
1194. DIO Stands for a) Digital Input Output c) Direct Input Output	b)Digital Internal Output d)Digital Interlock Output	(a)
1195. ECC-1 Stands fora) Electrical Control Circuit-1c) Electrical Control Cabinet-1	b) Electrical Control Cubica d) Electronic Control Cabin		c)
1196. EPU Stands for a) Engine Performance Unit c) Engine Pressure Unit	b) Engine Pick Up d) Electrical Pick Up	(b)
1197. FP RLY Stands for a) Fuel Pressure Relay c) Full Pressure Relay	b) Failure Protection Relayd) Fuel Pump Relay	(d)

1198.	GTO Stands for		(a)
	a)Gate Turn Off Thyrister	b) Gate Thyrister off			
	c) Gate Turn On	d)Gate Thyrister On			
1199.	IPR Stands for		(d)
	a) Inverter Protection Relay	b) Insulator Protective Resistor			
	c) Inverter Protective Rod	d) Inverter Protective Resistor			
1200.	MMC Stands for		(c)
	a) Miss Management Case	b) Miscellaneous Manager	,		,
	c) Miss Management By Crew	d) Miscellaneous Managen	nent	Ву	Crew
1201	WDG4D is specially designed for	(a			
1201	2 0	service c) Mixed service d) None			
	,				
1202	No. Of teeth in HHP loco crank shat	ft (d	l)		
	a) 58 b) 64 c) 113	d) 79			
1202	WDC41		(_	`
1203	WDG4 loco is a a) Single cab loco	b) Dual cab loco	(a)
	c) Dual cab loco with disc brake	d) None			
	e, Built cus 1808 Willi disc stake	d) Hone			
1204	In WDG4 left cam gear is driven by	(с	:)		
	a) right cam gear	b) No.1 Idler gear			
	c) No. 2 Idler gear	d) Crank shaft gear			
1205	Maximum speed of WDG4D loco is	s KMPH (b	.)		
1203	a) 100 b) 105 c) 135)		
	<i>a</i> , 100 <i>b</i> , 103 <i>c</i> , 133	d) 100			
1206	No. of cylinders in HHP loco engine	e (c)		
	a) 8 b) 12 c) 16	d) 20			
1207.	Torsional damper is fitted on	`	.)		
	a) Front end of engine	b) Rear end of engine			
	c) Front & Rear end of engine	d) None of the above			
1208	Do not pour water in HHP loco	(b)		
	a) DM b) Raw c) Dis	· ·			
1209	TRD timing of 710G3B TSC is		(b)
	a) Minimum 30 sec	b) Minimum 50 sec			
	c) Minimum 60 sec	d) Minimum 180 sec			

1210.	M	odified water pump	has				(b)
	a)	Taper bearing			b) Ball bearing	g			
	b)	Both taper & ball	bearing		d) None				
1211.	То	operate sander, air	supply is recei	ved fro	m		(a)
	a)	MR1	b) MR2		c) BP	d) FP			
1212.	No	o. of rollers in cluto	ch assembly				(c)
	a)	8	b) 12		c) 16	d) 20			
1213.	Dı	uring setting of TD	C pointer, which	ch powe	r assembly is k	ept at E	BDC	C (a
	a)	No. 1	b) No. 16		c) No. 8	d) No.	9		
1214.	In	HHP loco exhaust	manifolds have	e no	. of chambers	(a)		
	a)	4	b) 7		c) 8	d) 5			
1215.	Lo	ow viscosity indicat	tes				(a)
	a)	Mixing of fuel oil	in lube oil		b) Mixing of v	water in	lut	e c	oil
	c)	Mixing of carbon	particles in lub	e oil	d)None				
1216.	In	HHP loco bail off	ring is provide	d on			(c)
		Auto brake handle			up valve				
	c)	Direct brake hand	le	d) Non	le				
1217.	Ac	cessory drive coup	ling retaining b	olt is to	rque at ft-	lbs	(b)
	a)	450	b) 650 c) 250		d) 750				
1218.	In	HHP loco exhaust	valve opens at				(b)
		23° after TDC			° after TDC				
	b)	180° after TDC		a) 43°	before BDC				
1219.		all form of "EMD					(a)
		Electro Motive Di	· ·						
	,	Electro Motive Di Electro Motive Di	· ·						
		None of the above		Conn	Л				
	ŕ								
1220.		ngth of WDG4D lo 22.98	comotive is b) 21.54	mete	ers c) 21.7 d) 19.5	<u> </u>	(a)
	a)	<i>44.</i> 70	U) 41.J4		c) 41.7 d) 19.3	,			
1221.		o operate MVCC, a		eived fr			(a)
	b)	MR1	b) MR2		c) BP	d) FP			

1222.	After changing power assemb	ly which of th	e following operation		ot p d	
	a) Injector timing	b) 'Pee	e' pipe alignment	`	_	,
	c) Lead wire test	*	e of the above			
	.,	-,				
1223.	In HHP loco mainly which go	vernor is fitte	d	(a)
	•	b) MCBG		Non	e	,
	•					
1224.	HHP locomotive has a					(a)
	a) 2 stroke engine		b) 4 stroke engine			
	c) Multi stroke engine		d) None of the above			
1225.	In HHP loco TSC is fitted in t	he		(b	
	a) Front end of the engine	b) Rear	r end of the engine			
	b) Front or rear end of the eng	gine d) Non	ie .			
1226.	During EPD testing at Idle eng	gine normally	shutdown in sec (c))	
	a) 120 b) 40	e) 60	d) 30			
1227.	EPU fitted on			(b)
	, .	o) Starter moto				
	c) Main alternator	d) Companion	alternator			
					_	
1228.	No. of radiators fitted in WDF			(b)
	a) 1 b) 2	c) 4	d) None of the above			
4000						
1229.	Radiator fan mounting bolt is		ft-lbs.	(b)
	a) 450 b) 100 c) 250	d) 50				
1000	D	1	1 111 1	,		`
1230.	During injector rack setting go		•	(a)
	a) 1.00" b) 1.02"	e) 1.96"	d) 0.62"			
1221	In LITTO loop norman assembly,	annsists of		(a	,
1231.	In HHP loco power assembly of	consists of	1-) C-1! 1 1	(d)
	a) Cylinder liner	4	b) Cylinder Head	1	_	
	b) Piston ,ring, carrier & conr	iecting rod ass	sembly a) all of the a	DOV	е	
1222	Liner of HP loco is made of			(0	`
1232.		r aleeves		(a	,
	a) Cast iron with brazed outerb) Cast iron allow with tip play					
	b) Cast iron alloy with tin pla	_				
	c) Stainless steel with chromed) Cast iron	pianng				
	d) Cast iron					
1233	Type of CBC fitted in WDG4I) loco is		(a)
1433.	• •	c) H-type	d) None of the above	(a	,
	$a_j = cypc$ o_{j+1} -cypc	o, ii typc	a) Holle of the above			

1234.	Which of the following crank case oils are approved for ap	plication i (=
	a) Servo RR 520 MG of M/s IOCb) MAK RR517 M of M/s BPC	`		,
	c) HP RR 817 M of M/s HPC d) All of the above			
1235.	Scavenging pump is a a) Reciprocating pump b) Centrifugal pump c) Positive displacement helical gear type pump d) None of the above			(c)
1236.	No. of starter motors fitted in WDP4D loco is a) 2 b) 1 c) 3 d) None	(a)
1237.	Starter motors in HHP loco are a) AC motors b) DC series motors c) 3 phase AC motors d) None of the above		b)
1238.	Starter motors in HHP loco are connected in a) Series b) parallel c) Series parallel	d) None	b)
1239.	For starting of HHP loco a) Single electric motor is used b) Dual electric motor is used c) Dual air starting motor is used d) None of the above	(b)
1240.	Rating of starting motor fuse is a) 400 A b) 800 A c) 500 A	d) None	b)
1241.	Use of starting fuse is a) Only during engine starting b) Only during engine running c) Only during engine shutdown d) All of the above			(a)
1242.	Number of piston rings in HHP engine piston a) 2 b) 4 c) 5 d) 6	(d)

1243.			ntrol system 1	f starting fi	use 1s 1	removed during	(a	`
		ning then	11 -14 -1				(d)
		_	ll shut down	l_					
		_	ll come to Idl	le					
			omes to zero						
	d)	There will	be no effect	on engine					
1244.	Pu	rpose of st	arting fuse is				(c)
	a)	To protect	the LV (low	voltage) c	ontrol	circuit			
	b)	To protect	the HV (Hig	h voltage)	contro	l circuit			
	c)	To protect	starter motor	rs from cur	rent o	verload			
	d)	All of the	above						
1245	D 1a	ook light to	st is related to					b	
1243.		Power ass			h) Euo	l system		U	,
	a)		er charger			e oil system			
	C)	rurbo sup	er charger	,	u) Luc	e on system			
1246.	No	o. of teeth i	n starter moto	or pinion is					(c)
	a)	10	b) 15	c) 11		d) None			
					e fuel	prime/engine sta	ırt switcl	ı (FF	P/ES) to ES
po			e than so			(a)			
	a)	20	b) 30	c) 60		d) 80			
1248.	Ba	icklash to h	e maintained	between r	ing ge	ar and starter mo	otor pinic	on (c)
	a)	0.008"-0.0		0.007"-0.02		c) 0.015"-0.040	-		
	,					,	,		
1249.	Co	ompressor o	of HHP loco i	S			(a)
					notor	driven c) Belt o	driven d) No	ne
1250.					ed with	n mm chok	e (b)
	a)	7.5	b) 7.14	c) 7.6		d) 8.2			
1071									`
1251.			inlet port clos				(b)
			ore BDC						
	b)	107.5° aft	er TDC	d) 67° a	ifter B	DC			
1252.	In	HHP loco	water pressur	e cap is se	t at	psi	(a)
	a)		b) 12			d) 20	`		,
	,		,	•		•			
1253.		-	tem air supply				(b)
	a)	MR1	b) MR2	c) MRE	Q	d) None			

1254.	a)b)c)	Only mair Only cam Only TSC All of the	bearing shaft bea bearing	& conne	ubricated		s lubricate	d	(c	;)
1255.		el oil prim	-	conditio		_		(d)	
		Green zon	e		,	Yellow zo				
	c)	Red zone			d)	all of the a	ibove			
1256.		BI of testing 24 months	_					of (c)	
1257.	In	HHP loco	TSC spin	on filte	r is fitted	on			b)	
		Right side	-				rear end o	f engine		
		Left side,		_		_				
1258.	a)	HHP loco Engine run Engine sh	n & Idle o	conditio	n	checked a	t ((a)		
	c)	Engine rui	n & 8 th no	otch con	dition					
	d)	Any of the	e above							
1259.	a) b)	HHP loco Engine run Engine sh Engine run Any of the	n & Idle o utdown c n & 8 th no	condition	n	d at	((a)		
1260.	In	HHP loco e	epicyclic	gear trai	n is found	d in	((a)		
		Turbo sup Cam shaft						r train		
1261.		DP4D loco Left hand			_	•		(a)		
1262.	In	jector hand	control l	ever is a	lso know	n as	((a)		
	a)	Lay shaft	1	o) Jackir	ng shaft	c) po	wer shaft	d) Nor	ne	
1263.	Nu a)	umber of M	Iain beari b) 9	_	IHP locor) 10	notive d) 11	((c)		
1264.	Uı	o to no	tch HHP	loco car	be raised	d without l	load ((b)		
	-	4 th	b) 5 th) 6 th	d) 7 th		,		

1265.	M	R efficiency	y test is related	l to			(d)			
	a)	Power asse	embly		b) MR	tank					
	c)	Turbo supe	er charger		d) Con	npressor					
1266.	a)	arking rang 1.96" – 0.6 1.02" – 1.9		termina	b) 1.00	cale is 2" – 0.62" 2" – 0.62"	(a)			
1267.	No	o. 9 to 16 pc	ower assembli	es are				(a)	
	a)	Fork type			b) Blac	de type					
	c)	Fork & Bla	ade mixed		d) Non	ne of the abov	e				
1268	No	1 to 8 now	ver assemblies	are				(b		
1200.		Fork type			b) Blac	de type		`			
		Fork & Bla	ade mixed			ne of the abov	e				
1269.	a)	HHP loco A Right side No. 2 Idler	=	erator dri	b) Left	is driven by side cam gea 1 Idler gear	ır	(a))	
1270.	No	o. of compre	ession rings fi	tted in H	HP eng	ine piston		(d)	
	a)	1	b) 2	c) 3		d) 4					
1271.		HHP loco p RR 460	pinion end TH b) Grease			cated by empound d) l	None	(a))	
1272.	In	HHP loco l	both side cam	gear rota	ate			(b)	
		in same di				pposite direct	ion	`		,	
			crank shaft ro	tation	d) Non						
1273.	a)b)c)	rpm of can	ne relation beton shaft = rpm of shaft = $\frac{1}{2}$ of a shaft = $\frac{1}{4}$ of the shaft = $\frac{1}{4}$ of the shaft = $\frac{1}{4}$	of crank rpm of c	shaft crank sh	aft	rpm		(a)	
	u)	None of th	e above								
1274.		_	main bearing		loco	1)			(b)	
	a)	2	b) 4	c) 5		d) 6					
1275.	In	HHP loco v	water drain co	ck is loc	ated in				((a)	
	a)	Accessory	room		b) Und	ler truck loco	right				
	b)	Under truc	k loco left sid	e	d) Con	npressor roon	ı				

1276.	HHP locomotive is a		(a)
	a) Left hand drive loco	b) right hand drive loco			
	b) Both hand drive loco	d) None of the above			
1277.	ECC-4 is found in		(d)
	a) WDP4 b) WDG4 c) WI	DP4B d) WDG4D			
1278.	In HHP loco torque value of Altern	_	(c)
	a) 295 ft-lbs b) 650 ft-lbs c)	1400 ft-lbs d) 2400 ft-lbs			
1270	Unight of roil guard in HUD loss is			0	`
12/9.	Height of rail guard in HHP loco is a) 4 ½ " b) 5 ½ "	c) 6 ½ " d) None		a)
	a) 4 /2	c) 6 /2 d) None			
1280	Number of air inlet ports in a power	er assembly		d)
1200.	a) 8 b) 12 c) 16	d) 18		u	,
	u, c c, 12 c, 12	3) 13			
1281.	Compressor of HHP locomotive is	a	(b)
	a) Rotary compressor	b) Reciprocating compressor	`		
	c) Centrifugal compressor	d) None of the above			
	-				
1282.	OSTA operation of HP loco is chec	cked in schedule	(b)
	a) 30 days & above	b) 90 days & above			
	c) 180 days & above	d) Yearly & above			
1283.	Purpose of Torsional damper in HH		(a)
	a) To absorb crank shaft torsional				
	b) To absorb vibration of locomoti				
	c) To absorb vibration of main alte	ernator			
	d) None of the above				
1294	Number of teeth in Sun gear is		(0	`
1204.	a) 37 b) 26 c) 58	d) 130	(a)
	a) 37 b) 20 c) 38	u) 150			
1285	Number of lube oil bypass valves i	n HP loco lube oil system	(b)
1200.	a) 1 b) 2 c) 3	d) 4	(Ü	,
	3, 2	-,			
1286.	What is the limit of crush height in	HHP loco	(b)
	a) 0.007" – 0.025	b) 0.008" – 0.017"			
	c) 0.016" – 0.039"	d0 0.006" – 0.018"			
1287.	Height of WDP4 loco (over Horn) i	n meters	(a)
	a) 4.22 b) 4.25	c) 4.20 d) None			

1288. Number of inle	t valves fitted in I	HHP loco power	assembly	(d)
a) 2	b) 4 c)	6 d) N	Ione			
1289. Compression r		otive is		(d)
a) 12:1	b) 14:1	c) 12.5:1	d) 16:1			
1000 EDD	CHIDI		1 1 1	,		`
1290. EPD operation				(a)
a) 30 days & abob) 180 days & al		b) 90 days &				
0) 100 days & at	bove	d) Yearly &	above			
1291. Number of Lub	e oil pumps in H	HP loco			d)
a) 1	b) 2	c) 3	d) 4			,
,	-,	-, -				
1292. Full form of B	L key is				a)
a) Button Lever	key	b) Block Le	ever key			
c) Bench Lock k	tey	d) None of	the above			
1293. In WDG4 loco	Tractive Effort lin	mit value is		(c)
a) 200 KN	b) 250 KN	c) 294 KN	d) None			
1294. Blades of Dyna				(b)
a) Iron	b) Aluminium	c) Steel	d) None			
1205 Normal I D dua	maina namittad v	un to		(h	`
1295. Normal LR dro a) 0.75		-	Iona	(b)
a) 0.73	0) 0.83	0.95 d) N	TOTIE			
1296. In HHP loco in	itial torque value	of crab nut is	ft-lbs	(b)
	-	165 d) 20		•	Ü	,
,		., _				
1297. In HHP loco pi	ston thrust washe	r minimum perm	nissible thickness is	(b)
a) 4.67 mm	b) 4.44 mm	c) 1.73 mm	d) None			
1298. In HHP loco m	aximum percentag	ge of total no. of	radiator tubes make du	ımmy	is	
				(a)
a) 2	b) 4 c)	5 d) 1				
1200 T G					. ,	,
	•	=	mal range of sodium	(Na) 1	ıs (c)
a) $0-75$ ppm	b) 0 – 50 ppm	c) 0 – 30 pp	om d) 0 – 20 ppm			
1300. Model of comp	ressor in UUD loo	comotiva is		(a)
-	b) WLG	c) WBG	d) WBO	(а	,
u) 11 L/14	<i>o,</i> 11 LO	<i>c)</i> # D G	u) 11 DO			
1301. Model of diese	l engine fitted in I	HHP locomotive	is	(b)
	b) 710 G3B	c) 710 G3C		`		,

	In HHP loco l R1 & R2	Hand brake ap b) R4 & R5	plies to	c) L1	& L2	d0 L4 & L5	(b)
1303	WI N model (compressor ha	c	,			(a	`
		b) 4 c		c) 6 c	ylinders	d) None	(а)
1304.	TSC of HHP	locomotive is	cooled b	y			(c)
a)	Air	b) water		c) Lub	e oil	d) None			
1305.	Number of Bi	ake cylinders	in HHP	loco			(c)
a)	4	b)6	c) 8		d) 10				
1306.	Number of do	owels in fork re	od and b	asket as	ssembly		(d)
a)	1	b) 2	c) 3		d) 4				
1307.	Fork rod pow	er assembly is	located	in whic	h side of e	ngine	(a)
a)	Left	b) Right		c) Bot	h side	d) None			
1308.	Blade rod pov	wer assembly i	s located	l in whi	ch side of	engine	(b)
a)	Left	b) Right		c) Bot	h side	d) None			
1309.	Pick up time l	between one ra	adiator fa	an to an	other		(b)
a)	10 sec	b) 20 sec		c0 30	sec	d) 40 sec			
1310.	Which one is	not required fo	or injecto	or rack	setting		(a)
		ower assembl		ept at T	ΓDC				
,		ck to be locked tool is require							
	_	•		nut clo	ockwise dir	ection to loose it			
1311.	Type of water	pump fitted in	n HHP lo	ocomot	ive		(a)
	Centrifugal				ciprocating	type			,
c)	Positive disp	placement type	e	d) No	ne				
1312.	Oil separator	in HHP loco is	s cleaned	l in	_ schedule		(b)
a)	30 days & a	bove		b) 90	days & abo	ove			
c)	180 days &	above		d) Yea	arly & abov	ve			
1313.	Number of oi	l control rings	in HHP	engine	piston		(b)
a)	1	b) 2	c) 3		d) 4				
1314.	Discharge cap	oacity of FPM	in HHP	locomo	otive		(b)
a)	5 GPM	b) 7 GPM	c) 10 (GPM	d) 12 GP	M			

a) 45 – 50 rpm b) 60 – 75 rpmc) 75 – 90 rpm d) 100 – 120 rpm	(;	a)
1316. Maximum speed of WDP4 locomotive is kmph	((d)
a) 100 b) 105 c) 120 c) 160	•		
1317. Value of backlash between water pump & Governor drive gear a) 0.007" – 0.025" b) 0.008" – 0.016" d) 0.006" – 0.018"	(1	b)
1318. Minimum engine lube oil viscosity (KV) of HHP locomotive		b)
a) 12.8 cst at 100°C b) 13.0 cst at 100°C			
b) 18.8 cst at 100°C d) None of the above			
1319. TRD is related to	/ 	d)
a) Lube oil cooler b) Radiator c) Compressor d) Turbo super charger	`		,
1320. Value of backlash between Aux. Gen. Drive gear & cam gear	(c)
c) 0.007" – 0.025" b) 0.008" – 0.016"			
d) 0.010" – 0.025" d) 0.006" – 0.018"			
1321. Top connecting rod bearing shell is changed after	(1	b)
a) 2 years b) 3 years c) 6 years d) None			,
	(1	b)
a) 1 b) 3 c) 4 d) None			
1323. In HHP loco thrust collars fitted in		a)
a) No. 5 & 6 main bearing b) No. 1 & 9 main bearing	•		,
c) No. 1 & 10 main bearing d) None of the above			
1324. Turbine inlet scroll is	(;	a)
a)welded assembly made from "chrome- moly" plate			
b)Forged assembly made from "chrome-moly" plate			
c)Welded assembly made from CRCS d)None of the above			
1325. In HHP loco lube oil level to be checked at temperature a) 72°C b) 52°C c) 62°C d) None	(;	a)

226. In HHP loco maximum fuel oil is injected at						
a) 9.6° before TDC	b) 0.8° after TDC					
c) 15.8° before TDC	d) 16.6° before TDC					
1327. How many EBT are fitted in HHP lo	ocomotive	(a)		
a) 1 b) 2 c) 3	d) 4	`				
1328. In HHP locomotive compressor over	haul on	(a)		
a) 360 days schedule	b) 2 yearly schedule					
c) 3 yearly schedule	d) 6 yearly schedule					
1329. Fireman emergency brake handle is		(a)		
a) Both control console/desk	b) behind LP seat					
c) Behind ALP seat	d) None of the above					
1330. Fuel tank of HHP locomotive is		(a)		
a) Detachable	b) Non-detachable	(а	,		
c) Both detachable & non-detachable	d) None					
e) Both detachable & non detachable	d) Hone					
1331. In HHP loco fuel injection ends at		(b)		
a) 47° before BDC	b) 0.8° after TDC					
c) 15.8° before TDC	d) 16.6° before TDC					
1332. Low Idle RPM of WDP4D locomoti	ve is	(a)		
a) 200 b) 269 c) 350	d) 400					
1333. Height of cattle guard in HHP locom	notive is	(c	`		
	c) 6 ½ " d) None	(C	,		
a) 172 0) 372	e) 0 /2					
1334. Number of after coolers fitted in HH	P locomotive	(b)		
a) 1 b) 2 c) 3	d) 4					
1335. Delivery rate of soak back pump in I	_	(b)		
a) 27 LPM b) 57 LPM c) 75 I	LPM d) None					
1226 Weight of WDC4D leasurative is		(a	`		
1336. Weight of WDG4D locomotive is		(a)		
a) 126 T b) 123 T c) 121	.2 1 d) 130.2 1					
1337 oil is filled in HHP loco compr	ressor	(b)		
a) RR 460 b) SP 100 c) RR		`				
, , , , , , , , , , , , , , , , , , , ,	,					
1338. No. of teeth in No.1 Idler gear is		(b)		
a) 58 b) 64 c) 69	d)79					

1339.	In HHP loco	compressor is	cooled b	y		(a)
a)	Water	b) air	c) oil	d) None	e			
1340.	Pre lubricatio	n is related to				(d)
a)	Power assen	nbly		b) Fuel system				
c)	Turbo Super	rcharger		d) Lube oil sys	tem			
1341.	Crush height	is measured b	V			(c)
	Vernier Call			b) Outside mice	rometer			,
	Feeler gauge			d) Height gauge				
1342.	In HHP locon	notive specifie	ed limit o	f exhaust gas ter	nperature is	(a)
	315°C - 400	-		b) 435°C - 535	•			,
	490°C - 590			d) None of the				
1343. '	Torque value	of exhaust ma	unifold to	expansion joint	bolt is	(c)
	50 ft-lbs	b) 75 ft-lbs		c) 80 ft-lbs	d) 190 ft-lbs			
	In spectrograp	•	of engine	lube oil, high ra	nge of	(d)
a)	Internal wat	er leakage		b) inefficient ai				
b)	Cylinder lin	er water		d) bush & bear	ing wear			
1345.	Kinematic vis	scosity of lube	oil is ch	ecked at		(d)
a)	40° C temp	b) 100° C	temp	c) 40° F temp	b) both a & b			
1346.	Unit of kinem	natic viscosity	is			(a)
a)	CST	b) UST	c) MS	T	d) PPM			
1347.	In HHP loco	compressor is	}			(b)
a)	Belt driven	b) Go	ear driver	c) chain	driven d) all of the	abo	ove	
1348.	Idle rpm of W	/DP4D locom	otive is			(a)
a)	269	b) 904	c) 954		d) 1050			
1349.	No. of marks	in HHP loco	compress	or oil dipstick(m	nodified) gauge	(b)
a)	2	b) 3	c) 4		d) None of the above			
1350.	Control system	m used in HH	P locomo	otive is		(d)
a)	EMD	b) Medha	c) Sier	mens	d) all of the above			

1351. Shot peening	process is done	e in piston ring to imp	rove	(a)	
a) Fatigue stren	a) Fatigue strength b) Tensile strength						
c) Compressive	e strength	d) None of the	ne above				
1352. In Medha con	trol system dur	ing pre-lubrication Tl	LPM run for	(b)	
a) 120 sec	b) 900 sec	c) 2100 sec	d) 1000 sec				
1353. Gear case oil	capacity of WI	OP4D locomotive is		(b)	
a) 7.5 litres	b) 8.5 litres	c) 9.5 litres	d) 9.8 litres				
1354. Gear case oil	capacity of WI	OG4D locomotive is		(a)	
a) 7.5 litres	b) 8.5 litres	c) 9.5 litres	d) 9.8 litres				
1355. In HHP loco v	value of cylinde	er head valve seat ang	le is	(a)	
a) 30°00' - 30°	15'	b) 45°00' - 4	.5°15'				
b) 60°00' - 60°	15'	d) None of the	ne above				
1356. POP test is co	onducted to che	ck the performance of		(a)	
a) Injector	b) TSC	c) Lash adjuster	d) Air dryer				
1357. Water leakage	e from air box o	drain pipe indicates	21	(d)	
a) Water inlet t	tube may be cra	nck					
b) Cylinder He	ad/liner may be	e crack					
c) After cooler	tube may be p	unctured					
d) All of the ab	oove						
1358. VCD cycle co	onciete of			(d)	
a) T0 – Vigilan				(u	,	
b) T1 & T2 – V							
		le & Penalty brake res	eat				
d) Al of the abo		ic & I charty brake ic.	SCI				
d) Aloi the aoc	JVC						
1359. Minimum lub	e oil level of H	HP loco compressor i	S	(b)	
a) 5 litres	b) 6 litres	c) 8 litres	d) 9.8 litres	`		,	
1360. While VCD C	Operation T0 –	cycle is called				(a)
a) Vigilance cy	vcle	b) Warning o	cycle				
b) Penalty brak	te cycle	d) all of the a	above				
1361. T1 – Vigilanc	e cycle is calle	d		(b)	
a) Vigilance cy	vcle	b) Warning o	cycle				
c) Penalty brak	te cycle	d) all of the a	above				

1362. T2 – Vigilance cycle is called ()
b)	Vigilance cy	vcle	b) Warning cycle	b) Warning cycle			
c)	Penalty brak	te cycle	d) all of the abov	e			
1262 '	T4 Vicilana	a avalada aallad			(_	`
	•	e cycle is called	h) Warning avale		(c)
	Vigilance cy		b) Warning cycled) all of the abov				
u)	Penalty brak	te reset cycle	d) all of the abov	е			
1364.	Duration of T	0 cycle is			(a)
a)	60 sec	b) 8±2 sec	c) 34±2 sec	d) None			
	Duration of T	<u>*</u>			(b)
a)	60 sec	b) 8±2 sec	c) 34±2 sec	d) None			
1266	Dunstion of T	2 avala ia					`
	Duration of T 60 sec	b) 8±2 sec	c) 34±2 sec	d) None		c)
a)	oo sec	0) 8±2 sec	c) 34±2 sec	d) Nolle			
1367.	In HHP loco (duration of suction	period is		(a)
	87°	-	•	138°	(,
/		-, -					
1368.	FPM of HHP	locomotive is			(c)
a)	AC motor	b) DC series moto	or c) 3Ø AC motor	d) None			
	Air dryer is fi				(b)
· · · · · · · · · · · · · · · · · · ·	Before MR1			& MR2 reservoir			
c)	Between MI	R2 & CCB system	d) after MR2 rese	ervoir			
1270	Shot peening	is related to			(h	`
	Lube oil coo		b) Piston	rina	(b)
	Turbo super		· · · · · · · · · · · · · · · · · · ·	gear assembly			
0)	raroo saper	charger	d) clutch	gear assembly			
1371.	Final torque	value of Crab nut is	S		(d)
	250 ft-lbs	b) 400 ft-lbs	c) 150 ft-lbs d)	2400 ft-lbs	`		
1372.	In spectrograp	ohic analysis of eng	ine lube oil normal ra	nge of Copper (Cu)			
a)	0-77 ppm	b) $0 - 50 \text{ ppm}$	c) $0 - 20 \text{ ppm}$ d	0 - 15 ppm			
	-	ube oil dipstick is lo			(a)
,			· •				
c)	Both side of	the locomotive	d) None of the fo	llowing			
1374	Length of W/I	OPAD locomotive is	meters		(a	`
	_			None of the above	(а	,
a) 1373. (a) c) 1374. 1	0 – 77 ppm Compressor le Left side of Both side of Length of WI	b) $0-50$ ppm ube oil dipstick is lot the locomotive the locomotive	c) 0 – 20 ppm d ocated on the b) Right side of the d) None of the form	0 – 15 ppm he locomotive llowing	(a	

1375. In HHP locomotive compressor air intake filter is changed dur	ring	((d)
a) 30 days & above schedule b) 60 days & above schedule				
c) 90 days & above schedule d) 180 days & above schedule				
1376. Free air delivery of GD air compressor is LPM	(c)
a) 4000 b) 5000 c) 6000 d) 9000				
1377. OSTA of HHP (4500 HP) locomotive is set at	((c)
a) 1035 – 1050 rpm b) 1035 – 1075 rpm				
c) 1085 – 1100 rpm d) 1185 – 1220 rpm				
1378. OSTA of HHP (4000 HP) locomotive is set at		a		
a) 1035 – 1050 rpm b) 1035 – 1075 rpm				
c) 1085 – 1100 rpm d) 1185 – 1220 rpm				
1379. HHP locomotive brake block is made of		c)
a) Cast iron b) Fibre c) Composite material d)	None of the a	abov	/e	
1380. In HHP locomotive pilot stud of liner is located at a) 5 o' clock position b) 6 o' clock position b) 12 o' clock position d) 13 o' clock position	((a)
1381. Maximum speed of WDG4D locomotive (in kmph) a) 100 b) 105 c) 135 d) 160	((b))
 1382. In HHP loco when OSTA is set, reset handle rest at a) 11 o' clock position b) 13 o' clock position c) 12 o' clock position d) None of the above 	((a)
 1383. In HHP locomotive lube oil strainer is fitted on a) Right side, front end of the engine b) Right side, rear end of the engine c) Left side, front end of the engine d) Left side, rear end of the engine 	((a)
1384. In HHP loco bearing to crank pin maximum clearance is a) 0.010" b) 0.015" c) 0.020" d) 0.0205	`	(a)
1385. In HHP loco Brake cylinder pressure is adjusted at a) 1.8 kg/cm² b) 3.5 kg/cm² c) 5.2 kg/cm² d) None	((c)
1386. In HHP locomotive compression stroke end at a) BDC b) 43.5° after BDC c) TDC d) 67°	after TDC	(c)

1387. Torque the rocker arm adjusting screw lock nut approximately a) 70-75 ft-lbs b) 75-80 ft-lbs c) 80-85 ft-lbs d) 85-90 ft-lbs	(c)
1388. POH of HHP locomotive is done after a) 8 years b) 12 years c) 15 years d) 18 years	(d)
1389. From initial final torque value, crab nut rotates approximately a) $120^{\circ} \pm 35^{\circ}$ b) $200^{\circ} \pm 35^{\circ}$ c) $250^{\circ} \pm 35^{\circ}$ d) $360^{\circ} \pm 35^{\circ}$	(b)
1390. Fuel tank capacity of WDP4D locomotive is litres a) 5000 b) 6000 c) 6500 d) 5500		a)
 a) Pull the piston down when cylinder is not firing b) Prevent the compressed air& gases from entering in to the crankcase c) Prevent lube oil entering into air box & combustion chamber d) All of the above 		b)
1392. Maximum permissible limit of fuel oil dilution in HHP lube oil is a) 2 % b) 3 % c) 5 % d) 10%	(c)
1393. In HHP loco following model Woodward governor is fitted a) PGR b) PGEV c) PGR & PGEV d) None of the	(ne ab	b ove	
1394. Which of the following valve is not fitted in HHP locomotive compressed air system a) Duplex check valve b) FT1 feed valve c) NRV d) None of the above	(a)
1395. Fuel oil primary filter condition gauge needle in Green zone indicates fuel oil differential pressure is a) 20 ± 2 b) 25 ± 2 c) 30 ± 2 d) None of the above	(a)
 1396. Thrust washer is made of a) Cast iron brazed on outer sleeves b) Cast iron alloy with tin plating c) Stainless steel with chrome plating d) Copper 	(d)
1397. In HHP locomotive type of torsional damper is a) Spring pack type b) Gear type c) Viscous type d) Pendulum type	(b)

1398. In H	HP locomo	otive inlet port open	at		(a)
a) 43.	5° before E	BDC	b) 107.5° after TDC				
b) 180	0° after TD	C	d) 67° after B	DC			
1399. To c	harge feed	pipe, air supply is re	eceived from		(a)
a) MI	R1 1	b) MR2	c) BP	d) BC			
1400. No.	of teeth in 1	HHP locomotive cra	ınk shaft gear is		(c)
a) 58		o) 64	c) 79	d) 113	`		,
u) 50	•	5) 61		d) 113			
1401. No.	of exhaust	valves in a power as	sembly		(d)
a) 1	1	b) 2	c) 3	d) 4			
1402. In H	HP locomo	otive codal life of T	urbo Super Chai	rger is	(c)
a) 6 y	ears 1	b) 10 years	c) 12 years	d) 18 years			
		otive for quick charg	•	_ is provided	(d)
a) BP		b) SP					
b) Ba	il off ring	d) Release p	osition of Auto	brake handle			
1404.35							
		d for clearing the bl	ock section with	1	,		
		cked axle is			(d)
a) 10	kmph	b) 15 kmph c) 20	kmph d) 25	kmph			
1405 5	C 1	, 1:cc : TGC			,		,
		naust diffuser in TSC			(a)
		turbulence of exhau	_				
ŕ		turbulence of compr				~	
			chaust section in	om the compressor bea	rınş	g	
a) No	ne of the al	bove					
1406 Max	imum tract	ive effort of WDP4	D locomotive is		(b)
a) 24			c) 53 tons		(U	,
a) 24	tons	0) 41 tolls	c) 33 tons	d) None of the above			
1407 Wat	er temnerat	ure maintained in co	ooling water sys	tem of			
	ocomotive:		Johns water sys	tem or	(c)
		b) 65° - 91° C	c) 79° - 85°	° C d) None	(C	,
<i>u)</i> 0 1	<i>7</i> 0 C	0,05 71 0	0,17 03	C G/ Hone			
1408. Capa	acity of gov	vernor oil of HHP lo	comotive		(a)
-	5 litres			d) None	`		

1409. Fu	ll form of E	BT is					(a)
a) E	Electronic Bl	low Down Tim	ner						
b) E	Engine Batte	ry Temperatur	re						
c) E	Electric Blov	ving transduce	r						
d) N	None of the a	above							
1410 0-		-441£III	ID 1			114	(`
		ater tank of HF					(c)
a) 2	2/3	b) 255	c) 625		d) 104	:3			
1411. Nu	umber of pos	sitions in L/T s	switch				(c)
a) 2	_	b) 3		c)4		d) 5			
	•	Piston stroke	_			otive is	(c	
a) 2	2" – 2.5"	b) 2" – 4.5"		c) 2"-	- 6.5"	d) None			
		uration of com	-	-			(b)
a) 8	34°	b) 113°	c) 16.6) ~	d)138°				
1/11/ Fu	ıll form of "I	FFCO" is					(c	`
		cut Out switch					(C	,
ŕ	- C	Conditioning (
	•	Fuel Cut Off sv							
	None of the a		· item						
1415. Co	ontrol stand	of HHP locom	otive is	called			(c)
a) C	Control cabir	b) Cor	ntrol des	k c) C	Control o	console d) None	,		
1416. 8 th	notch RPM	of WDP4D lo	ocomotiv	ve is			(c)
a) 2	269	b) 904	c) 954		d) 105	50			
		ase oil consum	ption of	HHP l	ocomot	ive	(a)
	ald not be m		1 > 2 0 :	••• (
		th/gear case			onth /ge				
c) 3	3.0 litre/mon	th /gear case	d) 3.5	litre/mo	onth /ge	ar case			
1/18 IE	dropping a	t higher notch	nrobah	le reacc	on of it		(d)
		may be chock	-	ie reasc	on or it	15	(u	,
		<u> </u>		ernor m	av he h	roken/disconnected			
	Defective fue	-	10 5010	ZIIOI III	uy oc o.	i Okon/ disconnected			
	All of the abo	=							
<i>u,</i> 1	01 010 000	- · -							
1419. Ad	dvantage of i	installation of	APU sys	stem is			(d)
	Saving fuel o		J		b) red	uce emission	`		
	educe noise					of the above			

1420. N	Number of ce	lls in a battery	of WDP4D loc	omotive		(b)
a)	4	b) 5	c) 8	d) 10				
1421. N	Number of ce	lls in a battery	of WDG4D loc	omotive		(a)
a)	4	b) 5	c) 8	d) 10				
	Before re-crai	nking engine, w motors	ait for minimu	m minutes	3	(c)
a)	1	b) 2	c) 3	d)4				
1423. N	Number of sa	nd boxes in HH	IP locomotive			(b)
a)	4	b) 8	c) 12	d) 16				
	Ainimum flas 35°	sh point of RR- b) 194°	520 is c) 240 °	d) 300°		(b)
a)	33	0) 1)4	C) 240	u) 300				
 1425. To increase OSTA tripping rpm a) OSTA adjusting spring tension to be increased b) OSTA adjusting spring tension to be decreased c) Both 'a' and 'b' d) None of the above 							a)
d)	None of the	above						
a)	Weak batter	may be experie y ession pressure	b) Def	ective Starter of the above	motor	(d)
is c	ontrolled by	eed of traction 1			tive	(a)
a)	OSTA	b) EPD	c) LCC	d) HOD				
Uni	loading at 20	-	-			(a)
a)	2.2 HP	b) 22 HP	c) 23 I	HP d) 70	HP			
		loco compresso	or should not be	e less than		(d)
	567 LPM at 700 LPM at	=	b) 600 LPM a d) 990 LPM a	•				
a)b)c)	Between tur	ind the impelle bine blades and bine blades and	l compressor be	_		(c)

1431. Compressor seal is located						b)
a)	Directly bel	hind the impo	eller				
b)	Between tu	rbine blades	and compres	ssor bearing			
c)	Between tu	rbine blades	and turbine	bearing			
	None of the						
,							
1432.	In Siemens c	ontrol systen	n during dyn	amic braking, engine	(b)
1.02.	raise to	_		ording, origina		Ü	,
a)	1	b) 4 th	c) 6 th	d) None of the above			
u,	2	0) 4	c) 0	d) None of the doove			
1/133	No. of planet	gaars in HH	D TSC			c)
	-	b) 2		d) 4			
a,) 1	0) 2	c) 3	d) 4			
1 42 4	Duning tongu	ain a af anah	4				`
	During torqu	•				a)
a)	-	ooard nuts fii					
	Torque inbo						
	=		s of power a	assembly crosswise only			
d)	All of the a	bove					
1435.	"Crush Heigl	ht Check" is	done to avoi	d the failure of	(a)
a)	Connecting	rod bearing	seizure				
b)) Main bearing	ng seizure					
c)	Thrust colla	ar seizure					
ď	All of the a	bove					
ĺ							
1436.	In HHP loco	engine cylin	ders are coo	led by	(c)
	Water			ged air & water d) Lube oil			,
α,	, viater	0) / III	o) Supercitar	ged an & water a, Ease on			
1/137	Maximum tra	active effort	of WDG4.1o	comotive is tons	(c)
	42	b) 23	c) 53	d) 39	(C	,
a,	42	0) 23	C) 33	u) 39			
1420	Com of IIIID	logo is aboo	Iradin a	aha dula	(`
	Cam of HHP				(a)
	30 days & a			b) 60 days & above			
c)	90 days & a	above		d) 180 days & above			
		on Inverters	in Medha m	ake traction system	(c)
	in HHP loco						
a)	2	b) 4	c) 6	d) 8			
1 4 4 0	True - CM .	· Carrer ()	244 d to 1111) la compative	,	_	`
	Type of Main				(c)
	DC Genera			b) single phase AC alternator			
c)	Three phase	e AC alternat	or	d) None of the above			

1441. Type of Traction Motors fitted in HHI	locomotive	(c)
a) DC series motor	o) Single phase AC motor			
c) Three phase AC motor	l) None of the above			
1442. Full form of EPD is		(c)
a) Engine Position Device	o) Engine Parting Device			
c) Engine Protection Device	l) Engine Patrolling Device			
1443. In HHP loco Medha control system du	ring dynamic braking,	(a)
engine raise to notch rpm.				
a) 2 nd b) 4 th c) 6 th	d) None of the above			
1444. Air box drain pipe is located at		(a)
a) Under truck near fuel tank	o) Alternator room			
c) Compressor room	d) Clean air compartment			
1445. Series of WDP4D is		(c)
a) 12 b) 20 c) 40	d) 70			
1446. WDP4D is a		(b)
a) Single cab loco	o) Dual cab loco			
c) Dual cab loco with disc brake	d) Dual cab loco with Hotel load			
1447. Function of oil control ring is to		(c)
a) Pull the piston down when cylinder i	s not firing			
b) Prevent the compressed air & gases of	enter in to the crank case			
c) Prevent the lube oil entering into the	air box & combustion chamber			
d) All of the above				
1448. Only pour in the HHP loco		(a)
a) DM water b) Raw water c) tap water	ater d) all of the above			
1449. Full form of DM water is		(b)
a) Distilled & Mineralised water				
b) Demineralised water				
c) Deionised Manufactured water				
d) None of the above				
1450. Do not switch off circuit breake	er immediately after	(a)
Engine shut down				
a) Computer & TLPM b) MAB	e) Local control d) None			

1451. Do not crank the engine without external pre-lubrication if	(c)
engine has not been cranked for more than hours. a) 24 b) 36 c) 48 d) 72	
a) 24 b) 30 c) 48 d) 72	
1452. Don't try to raise the engine before engine coolant	(b)
temperature has been reached upto temperature	, ,
a) 42° b) 52 c) 62° d) 72°	
1452 D : 1 6 : 1 :	
1453. Purging cycle of air dryer is a) $15 \div 1$ sec b) $30 \div 1$ sec c) $60 \div 1$ sec d) None	(c)
a) 15 ÷ 1 sec	
1454. In HHP loco MR safety valve is fitted at outlet of	(a)
a) MR1 b) MR2 c) FP d) MREQ	
1455. MR safety valve setting is kg/cm ²	(c)
a) 8.2 b) 9.6 c) 10.6 d) 10.0	
1456. Capacity of Main Reservoir is liters	(b)
a) 452 b) 492 c) 575 d) 600	(b)
1457 Di 1	
1457. Discharge capacity of Scavenging lube oil pump is GPM a) 230 b) 109 c) 405 d) 500	(c)
a, 250 b, 105 c) 105 a, 500	
1458. Discharge capacity of Piston cooling oil pump is GPM	(c)
a) 109 b) 200 c) 405 d) 500	
1459. Discharge capacity of main lube oil pump is GPM	(c)
a) 109 b) 200 c) 229 d) 500	
1460. ECC4 located in	(b)
a) Cab 1 b) Cab 2 c) Under truck d) None	
1461. Gear ratio in WDG4D locomotive is	(b)
a) 17:77 b) 17:90 c) 18:65 d) 18:74	, ,
1462 is provided in HHP loco in place of CCEM	(d)
a) TLPM b) Scavenging pump c) Exhauster d) Ejector ass	` /
1463. In HHP loco cooling coil located	(2)
a) left side of the loco b) right side of loco c) radiator room d) co	(c) ompressor room
1464 M. : I CWDDAIL : I I	_
1464. Maximum speed of WDP4d loco iskmph a) 100 b 120 c) 135 d) 160	(c)
a) 2 times of the engine speed b) 3 times of the engine speed	(b)
c) 5 times of the engine speed d) None of the above	

1466. Engine shutdown with what a) clutch assembly by	hite smoke ii) TSC	ndicating defect c) bearing	may be in d) All of the above	(d)
1467. Length of WDG4 locomo a) 22.98 meters b) 21.24		21.7 meters	d) None of the above	(b)
1468. No. of teeth in TSC drive a) 47 b) 64	gear is	c) 37	d) 81	(d)
1469.Maximum starting tractive a) 400 KN b) 540 K		DG4D locomot c) 900 KN	tive is d) None of the above	(b)
1470. 4 th notch engine rpm WD a) 269 b) 486	P4D locomo	otive is c) 572	d) 675	(c)
1471. No. of EFCO switches fit a) 2 b) 3	ted in WDP	4D loco c) 4	d) None of the above	(c)
1472. Lube oil filter element is a) Paper type two stage filt b) Paper type filter in tin co c) Screen type metallic ele d) None of the above	ter element ontainer			(a)
1473 In HHP loco long life lul a) 60 days b) 90 day		s changed at c) 180 days	d) None of the above	(c)
1474. Which type of fuel pump a) Centrifugal type c) Positive displacement type	b) Rec	IHP locomotive iprocating type ne of the above	;	(c)
1475. Soak back filter is fitted a) before soak back pump c) 'a' or 'b'		b) after soak b d) None of the	• •	(b)
1476. Engine piston stroke in W a) 10" b) 10.5"	DP4D locor	motive is c) 11"	d) None of the above	((e)	
1477. In WDP4/4D locomotive a) 7 - 9 seconds c) 16 - 30 seconds	Independent	b) 8 - 12 second) 15 - 20 second	nds	(a))
1478. "TRI-NETRA" is a proje a) Introduction of CCTV ca passenger activity b) Introduction of CCTV ca workmen activity c) Terrain imaging for locor d) All of the above	mera in Rail	sel Loco shed to		(c))

1479. No. of poles in HHP locomotive	ve Traction M	otor	(a)
a) 4 b) 6	c) 10	d) None of the above			,
1480. Which of the following sensor a) Temperature sensor c) Air Pressure sensor	are fitted in the b) Voltage sed) All of the a	nsor	(a)
1481. Black smoke from TSC chimna) Incomplete combustion of fueb) Lube oil burning in combustionc) Water ingress in combustiond) None of the above	el oil on chamber		(a)
1482. Codal life of crank shaft is a) 6 years b) 10 years	c) 12 years	d) 18 years	(d)
1483. Bevel gear is found in which ca) Governor drivec) Scavenging pump	component of I b) Sun & plan d) None of th	net gear	(a)
1484. Which reason is responsible for a) Failure of soak back pump b) Blockage in the lubricating pactor of the completion of d) All of the above	assage	np cycle	(d)
1485. type of transmission in WDG4 a) DC – DC b) AC – DC		S – AC d) None of the above	(ve	c)
1486. Which of the following change 4000 HP to 4500 HP a) 54" Radiator fan is introduce b) 8th notch engine rpm is increased. OSTA tripping rpm is increased. All of the above	ed instead of 52 ased from 904	2" radiator fan rpm to 954 rpm	(d)
1487. Bubbles in fuel return sight glass during priming indicates a) air draw in suction suction side of the fuel booster pump b) the leaky fuel injector c) insufficient fuel supply d) none of the above)
a) air draw in suction suction so b) the leaky fuel injector c) insufficient fuel supply d) none of the above	_	-	(b)
1489. Bubbles in the fuel return sigh a) air draw in suction suction subbbles the leaky fuel injector	•		es(c)

	cient fuel sup f the above	ply								
1490. To charg a) F2 feed	ge feed pipe a d valve b) FI	-					(d)		
1491. Auto bra a) 2	ake valve han	dle has b) 3	c) 4		d) 5	((d)		
1492. In HHP a) 10 mm c) Indepe			b) depo	end upo	n the locatio	n of wheel	(b)		
	locomotive F 0.1 kg/cm ² 0.1 kg/cm ²	P pressure	b) 6.1	± 0.1 kg ne of the			a))	
b) right si c) left sid	locomotive for de, front end of e, front end of the above	of the engin	ne e	tted on			(a)		
,	DBI testing of working press working pre	sure	b) 1.5		orking press	-	e at (b)	
,	locomotive e before BDC after TDC	xhaust valv	b) 43.5	5° after l after BI				(d)
1497. To opera a) MR-1	ate ABD, air b) M		ceived from MR-3	d) Non	e of the abo	ve		(a)
	wer air duct (l ys schedule y schedule	pellow) is c	b) 720	days sc early sch				(d	
1499. VCD ala a) T0 cyc		ring cycle	c) T2 o	cycle	d) T3 cycle			(c)
1500. In which a) T1 cyc	•	yellow flas	hing light wi	_	d) All of the	e above		(d)



1501. Which of the following feed valve is not available in HHP locomotive a) FT-1 Feed valve b) F-2 Feed valve c) D24B Feed valve d) All of the above	(c)
1502. No. of teeth in planet gear is a) 47 b) 30 c) 26 d) 37	(a)
1503. cooling time is related to a) Lube oil cooler b) Radiator c) Turbo super charger d) Compressor	(b	`
1504. Minimum thickness of air box hand hole collar a) 3.0 mm b) 3.9 mm c) 4.5 mm d) 5.1 mm	(b)
1505. In HHP locomotive speed of radiator fan should be in the range of a) 260 – 1905 b) 1085 – 1100 c) 1035 – 1050 d) None	(b)
1506. Aspirator hole is provided for a) Draining purpose of clean air compartment b) Draining purpose of TCC compartment c) Draining purpose of compressor compartment d) All of the above	(a)
1507. What is the permissible limit of root wear a) 3.5 mm b) 6 mm c) 5 mm d) None of the above	(oove	b)
1508. The flat tyre limit for WDP4D locomotive is a) 50 mm b) 60 mm c) 75 mm d) None of the above	(oove	a)
1509. More than 50 mm flat tyre, Loco should be moved to nearest shed at a Spe a) 20 kmph b) 25 kmph c) 30 kmph d) 40 kmph	ed o	f a)
1510. New wheel diameter of WDG4D locomotive is a) 1092 b) 1095 mm c) 1097 d) None of the above	(c)
1511. Wooden wedge is a a) safety item b) safety device c) safety fitting d) None	(a)
1512. In HHP locomotive duration of fuel injection period is a) 87° b) 113° c) 16.6° d) 138°	(c)

1513. Specific gravity of electrolyte of battery is measured by a) Hydrometer b) Barometer c) Hygrometer d) Voltmeter	(a)
1514. During Blended Braking a) Train brake is applied b) Loco brake is applied c) Dynamic brake is applied d) All the above brakes are applied	(d)
1515. Gear case joint curing time is a) 24 hours b) 36 hours c) 48 hours d) None of the above	(a)
1516. Reason for OSTA tripping at lower rpm isa) Injector rack may be jamb) Over speed mechanism may be failedc) Engine load may be dropped due to electrical malfunctiond) All of the above		d)
1517. Reason for oil throwing from TSC chimney may be a) Damaged power assembly c) Oil separator screen missing d) All of the above	(d)
1518. In HHP locomotive yaw damper is also known as a) Vertical hydraulic shock absorber b) Horizontal hydraulic shock absorber c) Secondary rubber pad d) None of the above 	(er	b)
1519. During cranking of engine in cold condition, engine rpm not hold due to a) Improper adjustment of governor compensation needle valveb) Worn out Teflon seal of power pistonc) Both a & bd) None of the above	(c)
1520. SFC of locomotive depends upon a) engine performance b) controlling of loco pilot c) condition of carriage & wagon d) all of the above	(c)
1521. 1st notch TE of WDP4D locomotive is a) 35 KN b) 50 KN c) 15 KN d) 25 KN	(a)
1522. Weight of WDP4D locomotive is a) 126 T b) 123 T c) 121.2 T d) 117 T	(b)
1523. No. of batteries in WDP4D locomotive a) 2 b) 8 c) 10 d) None of the above	(c)

1524. The sight glass located nearer to the engine block is called	(a)
a) Return sight glass b) By-pass sight glass			
c) Empty sight glass d) None of the above			
1525 type of hottomy used in WDD4/WDD4D lecometive is	(h	`
1525. type of battery used in WDP4/WDP4D locomotive is	(b)
a) Lead acid battery b) Nickel cadmium (NiCd) battery			
c) Nickel Metal hydride (NiMH) battery d) Lithium Ion (Li-ion)battery			
1526. In HHP locomotive for quick firing of engine	(c)
a) High horse power FPM is fitted b) TLPM is fitted	`		
c) GBPM is fitted d) None of the above			
e, and the end of the death			
1527. What is the condemning limit of composite brake block is	(a)
a) at 10 mm thickness b) at 25 mm thickness			
c) at 50 mm thickness d) at 75 mm thickness			
1528. Firing order of HHP locomotive is	(a)
a) 1-8-9-16-3-6-11-14-4-5-12-13-2-7-10-15			
b) 1-8-16-9-8-6-14-11-4-5-13-12-2-7-15-10			
c) 1-8-9-16-3-6-11-14-2-7-10-15-4-5-12-13			
d) None of the above			
1520. Auto drain valva anarata automatically.	(`
1529. Auto drain valve operate automatically	(c)
a) when compressor is unloading b) when EBT valve is energized			
c) both a & b d) None of the above			
1530. Peak firing pressure of locomotive is	(c)
a) 350 psi b) 1150 psi c) 1750 psi d0 3500 psi	`		,
a) 200 psi			
1531. BSFC of HHP locomotive is	(a)
a) 158.8 gm/bhp/hr b) 156.0 gm/bhp/hr	`		
c) 152.2 gm/bhp hr d) 154.2 gm/bhp/hr			
1532. No. 1 radiator fan is called that fan which is	(a)
a) nearest to compressor b) farthest from compressor			
c) no. specific concept for numbering d) None of the above			
1533. Coil resistance of Woodward governor solenoid should be	(c)
a) $500 \Omega \pm 10\%$ at 20° C b) $600 \Omega \pm 10\%$ at 20° C			
b) $700 \Omega \pm 10\%$ at 20° C d) None of the above			
1534. Minimum torque value of cylinder liner stud (in liner) is ft-lbs	1	0	`
a) 50 b) 90 c) 190 d) 240	(a)
41.77 01.77 VII.77 UI.4TV			

1535. Expected water temperature drop through radiator is a) 5.5°C b) 7.5°C c) 9.5°C d) None of the above	(c)
1536. Tube of lube oil cooler core is made of a) Brass b) Copper c) Aluminium d) None of the above	(a)
1537. Inter cooler of compressor is used to improve a) Volumetric efficiency of compressor b) Cooling efficiency of compressor c) both 'a' & 'b' d) None of the above	(a)
1538. In HHP locomotive compressor breather is replaced in a) Every 2 years b) Every 3 years c) Every 6 years d) None	(b)
1539. In spectrographic analysis of engine lube oil normal range of Silicon (Si) is a) $0-50$ ppm b) $0-20$ ppm c) $0-15$ ppm d) $0-10$ pp		c)
1540. The surface on most TSC bearing is a) Silver plated b) Gold plated c) Zinc plated d) No	`	a)
 1541. During Dead engine movement a) L & T switch to be kept in "Trail" position b) In CCB 1.5, dead engine cock to be kept in vertical position from horizontal In CCB 2.0, Dead engine cock (DER) to be kept in "IN" position from "OU c) Open MREQ & BCEQ cut out cocks at ant one end of the dead engine d) All of the above 	1/	d)
1542. Bottom connecting rod bearing shell is changed after a) 2 years b) 3 years c) 6 years d) None of the above	(c)
1543. HHP locomotive is fitted with a) DURACAM b) FE Cam c) Stiffer Unit Cam d) All of the above	(a)
 1544. In HHP locomotive, oil level capacity of gear case is a) Same in WDP4 & WDG4 locomotives b) More in WDP4 loco as compared to WDG4 loco c) More in WDG4 loco as compared to WDP4 loco d) None of the above 	()	b)
1545. RPM of governor drive gear is same as a) Crank shaft rpm b) Main lube oil pump rpm c) Water pump rpm d) None of the above	(a)

1546. To check fuel oil pressure, gau	ige to be connected on		(b)
a) Primary filter housing	a) Primary filter housing b) Secondary filter housing				
c) Fuel pump motor	d) None of the above				
1547. If due to any reason, the value Then loco will be shutdown thro a) HOD b) Low water EPD button			(с)
b) Low water Et D button	d) None of the above				
1548. In HHP locomotive left side ca a) No. 2 Idler gear c) Right side cam gear	am gear is driven by b) Crank shaft gear d) None of the above	7	(a)
, 5					
1549. No. of bull gears fitted in WD	G4D locomotive		(c)
a) 2 b) 4 c) 6	d) 8				
1550. No. of fuel oil spin on filters fi	itted in HHP locomotive d) 4	((b)
a) On the web of both the first a b) Right side of the main bearin c) Right side of each end "A" fr	and last throws ag caps	1	(a)
d) All of the above					
1552. No. of studs in a Power assemal 8 b) 12 c) 16	•		(a)
1553. Exhaust screen of HHP locoma) 30 Days & above schedule c) 180 days & above schedule	otive is inspected in which schedule? b) 90 days & above schedule d) Yearly & above schedule	ı	(b)
a) to limit the longitudinal move b) to limit the vertical movement c) to limit the vertical movement d) none of the above	ement of the crankshaft nt of the crankshaft		(a)
1555. Discharge capacity of water pu a) 867 LPM (229 GPM) at 900 b) 413 LPM (109 GPM) at 900 c) 1534 LPM (405 GPM) at 900 d) 3411 LPM (900 GPM) at 900	rpm rpm) rpm	(d)		

1556. No. of teeth	water pump	gear is in				(a)
	b) 26	c) 30	d) 69					
a) Harmonic oc c) Main Altern	lamper		b) Camshaf mpanion Alt			(a)
1558. No. of spring a) 10	gs in Accesso b) 12	ory drive gear	r is d) 16			(c)
1559. No. of rollers a) 10	s in Accesso b) 12	ory drive coup c) 8	oling is d) 16			(a)
1560. To measure to a) Axle generation	-			s used d) None of	the above	(c)
1561. In HHP loco a) Oil separato c) Exhauster i	or &Eductor		b) C	CM is fitted ll of the abov	ve	(a)
1562. No. of ETPs a) 1	fitted inn H	HP locomotiv	ve d) 4			(b)
1563. The internal a) Fuel oil	_	ctor is cooled c) Cooling v		•	ove	(a)
1564. In HHP loco a) Inlet valve				-	ove	(b)
1565. In HHP loco a) 60 days	motive fuel b) 90 days			nged at one of the abo	ove	(b)
1566. In HHP loco a) 600 μ	motive fuel b) 13	- •	lter is filtere c) 2 µ	•	one	(b)
1567. In HHP loco a) 600 μ	motive fuel b) 13		rainer is filte c) 2 µ	-	one	(a)
1568. In HHP loco a) 600 μ	motive fuel b) 13	•	filter is filte c) 2 µ	-	one	(c)
1569. Minimum lul a) 8 – 12 psi	-		co at Idle is c) 20 – 25 p	osi d) 12	5 psi	(a)

a) Left rear side of the engineboth side, rear end of the engine	b) right rear side of the engine	(a)
1571. In HHP locomotive Low lube oil shuta) HOD (Hot Oil Detector)b) EPD low cooling water portionc) EPD crankcase pressure portiond) All of the above	down is also initiated by	(d)
1572. In 710 G3B engine maximum permiss between lube oil and water is a) 10°C b) 11.1°C	c) 16°C d) None of the above		b)
1573. No. 1 Idler gear to stub shaft minimum a) 0.005" b) 0.008"	m clearance is c) 0.017" d) None of the above	(a)
1574. Lube oil pressure sensing pipe line are a) Left bank top deck cover b) Ri c) Inside the crankcase	e provided in the ght bank top deck cover d) Inside the oil pan	(b)
1575. In hHP locomotive lube oil strainer be a) 30 seconds b) 45 seconds	ox is filled with lube oil within c) 60 seconds d) 75 second	`	b)
1576. In spectrographic analysis of engine land $0 - 20 \text{ ppm}$ b) $0 - 15 \text{ ppm}$ c) $0 - 15 \text{ ppm}$ c		l) is)
1577. Normal TSC rpm of 4500 hp HHP loc a) 15000 – 20000 rpm c) 18500 – 25000 rpm	comotive is b) 18500 – 21500 rpm d) 18500 – 20000 rpm	(b)
1578. Minimum TSC rpm of 4500 hp HHP a) 15000 rpm b) 15932 rpm c)		(b)
1579. In CCB II fitted HHP locomotive Dea a) EBV b) ERCP c) BPCP	•)		
,	HP locomotive at full speed & full load : $5-1.95 \text{ kg/cm}^2$ $4-1.5 \text{ kg/cm}^2$	is (a	ι)

	comotive normal li C b) 70 – 80° C	ube oil inlet ten c) 80	-	d) 80 – 99° C	(a)
the speed ran	essure is the age er b) 5 psi g		_	_	(a)
a)2 psi gicato	21 0) 3 psi g	reater c/2 p	751 1C55 u) 5 p	51 1055			
1583. Normal hei	ight of lube oil reli b) 1.5"	•	plate to valve d) 2 ½ "	guide is	(b)
a) protect theb) protect the	se of lube oil relief e scavenging oil pu e piston cooling oi naximum pressure above	amp from over I pump from ov	er loading	ne lube oil system		a)
is positioned	ard direction	f valve on engi	ne, make sure b) upward di d) right side	rection	ort (a	
	me TSC surging probe b) 15 minutes		locomotive w minutes	rater wash done fo d) 30 minu		b	,
Pressure rea	comotive, Lube oil ches at 8 th not psi b) 35 p	ch & at I	dle speed.		(a)
•	e coolant with a Plor use in HHP eng b) 7.5 c) 9		tem	lly considered	(d)
is in between	nge of PH value o n 5 b) 7.5 to 10.5	f corrosion inhi		loco coolant (loco d) 10.5 to 1			
a) Engine co	I top dead centre noupling disc	b) Ri	nped on the o ng gear bration dampe		(a))
	between flywheel				,	b)	

a) Improper valve operation b) Improper for c) Unusual sound d) All of the a	uel injection durations
1593. Which No. main bearing are known as critical a) 2,6,8,9 b) 2,4,8,9 c) 1,5,6,10 d	• • • • • • • • • • • • • • • • • • • •
1594. In HHP Locomotive how many thrust collar (base) One b) Two c) Three	pearing) is used? (b) d) Four
1595. In HHP Locomotive minimum crankpin journa a) 165.011 mm b) 165.10 mm c) 215	
1596. In HHP Locomotive minimum main bearing jo a) 165.011 mm b) 165.10 mm c) 125.9	
1597. In HHP Locomotive normal crankpin journal of a) 165.011 mm b) 165.10 mm c) 2	
1598. In HHP Locomotive normal main bearing jour a) 165.011 mm b) 165.10 mm	rnal diameter is (c) 2) 215.90 mm d) 215.81 mm
1599. In HHP Locomotive thrust bearing clearance I a) 0.010" – 0.021" b) 0.0075" – 0.0150" d) None of the above	
1600. In HHP Locomotive main bearing to cranksha a) 0.010" – 0.021" b) 0.0075" – 0.0205" c d)None of the above	
1601. In HHP Locomotive bearing to crankpin clears a) 0.010" – 0.021" b) 0.007" – 0.020" c) 0.007	
1602. WDP4 is a a) Single cab loco b) Duel cab loco c) Duel d) Duel cab loco with Hotel load	(a) cab loco with disc brake
1603. Series of WDG4 is a) 20 b) 12 & 70 c) 40 d	(b)
	(a) rtive Effort Limiting motor ae of the above

a) Below 7	IA control sytemR '30 c b) Below) Above 850c	d) 960 c	(c)
		sh between no.1 idl "-0.048 c) 0.016	_	_	" (a)
1607. There are Gauge?	how many marks	in HHP Locomotiv	ve lube oil dipstic	ck (modified)	(c)
a)24	b)25	c)30	d) None of the	e above	
1608. Axle load a) 21T	of WDG4 Locom b) 20.5T	notive is c) 20.25T	d) 19.5T		(a)
a) After enb) After enc)After en	gine shut down & agine shut down & gine shut down & 3	rking of soak back by opening no.1 of by opening no.8 of by opening no.9 of by opening no.16of	il pan hand hole il pan hand hole l pan hand hole c	cover cover	(d)
1610. No. of te a) 79	eth in Accessory I b) 113	Orive Gear is c) 131	d) 69		(b)
1611. What is the a) 7psi	he value of min.TS b) 8psi	SC Lube oil pressur c) 29psi	re at 1st notch in d) 12psi	HHP loco ((d)
a) on the lubb) on the lub		nside the accessory nside the crankcase			(a)
a) both toeb)both toec) both toe		e equal in length ger than outside too longer than inside to			(b)
a) "long tob) "short tc) "long to	oe" of the slipper foe" of the slipper	wer assembly on er oot is facing the ce foot is facing the co oot is facing the rig	ntre of the engine entre of the engir	e ne	(a)

a) 600 litres	b) 2000 litres	c) 1500 litres	d) None of the	, ,
1616. Starter motor to b	be remove during cl	hanging of power as	sembly no d) None of the	(c)
1617. How many TM b a) 1	lowers are fitted in b) 2	HHP Locomotive c) 3	d) 4	(a)
a) on left side plate b) on right side plate c) on right side plate d) None of the above	form near clean air tform near clean air tform hand brake	compartment	notive?	(a)
1619. Maximum power a) 10HP	consumed by the r b) 15HP	radiator fan shall not c) 60HP	be exceeds d) 90HP	(d)
a) T-90 & above so c)T-360 & above so	hedule	b) T-180 &	& above schedule above schedule	(b)
1621. What is the final a) 1800-2000 psi		ed fuel injected to cy c) 16000-40000		(c) 40000 psi
1622.How many snap r a) 1 b) 2	ings are fitted in the	• •	n? l) 6	(a)
1623. Which grooves ri a) No. 4 grooves		is directionally sens		(d)
1624. Which piston ring a) No.2,3 Ring			ng d) None of	(a)
1625. Which grooves ri a) No.2,3 Ring groo c) No.1,4 Ring groo	oves	is interchangeable? b) No.5,6 Ring gr d) None of the ab		(a)
1626. Which piston ring a) No.1 Ring	gs of HHP piston is b)No.2 Ring		" Grooves Only"? d) None of the ab	(a)

a) 0.010"	b) 0.0.15"	c) 0.020"	d) 0.025"	(c)
1628. Which piston rin a) No.1 Ring	ngs many be installed v b)No.2 Ring	with either side up c)No.3 Ring	p? d) No.2& No.3 R	(d) ling only
1629. Which piston rin a) No.4 Ring	ng has double hook scr b)No.5 Ring	raper? c)No.6 Ring	d) all of the above	e (b)
1630. Which piston rin a) No.4 Ring	ng is special spring loa b)No.5 Ring	ded with scallope c)No.6 Ring	ed property? d) all of the abov	(c)
b) No.6 Ring many	be installed upside do be installed upside do nder the oil control rin	own own.		(d)
1632. To drain oil, after a) 10o drain hole a c) 45o drain hole a	re used	b) 150 drain hed) None of the		(a)
1633. In spectrographi a) 0-50 ppm	c analysis of engine lu b) 0-20 ppm	be oil normal ran c) 0-15 ppm	age of Chromium (C d) 0-10 ppm	Cr) is (d)
1634. Main lube oil pu a) Reciprocating c) positive displ	-	ear type pump	b) Centrifugal pum d) None of the abo	
1635. Piston cooling la a) Reciprocating c) positive displ		ear type pump	b) Centrifugal pum d) None of the abo	-
1636. How many Lube a) 1 b)	• •	ves are fitted in W d) None of the al		? (b)
1637. What is the TSC a) 3340 rpm	c rpm of HHP Locomo b) 4492 rpm	tive at 1st notch? c) 15932 r		(b) 8400 rpm
•	number of crankcase eft bank at the real end	b) right s	ide of the main bear	(d) ring caps.

1639. Value of Impeller Eye Cleara a) 0.012"-0.025" b) 0.024"		rbocharger at 9 O' c) 0.016"-0.039"	Clock position is(c) d) 0.010"-0.018"
1640. Which oil is recommended by a) 10w-30,10w-40,15w-40,20w-b) RR 57 c) RR67		L Classification	(a)
1641. How many sand magnet valve a) 1 b)		HHP Locomotive?	(d)
1642. How many Sun Gear are fitted a) 1 b) 2	d in HHP TSC c) 3	c?	(a)
1643. Lube oil groove is provided in a) lower bearing shell of crankp c) both bearing shell of crankpir	in	b) top bearing sheld) None of the abo	_
1644. Lube oil hole is provided in the a) lower bearing shell of crankpers of both bearing shell of crankpir	in	b) top bearing sheld) None of the abo	-
1645. There are two dowel hole in tall a) lower bearing shell of crankpit c) both bearing shell of crankpit	in	b) top bearing shel d) None of the a	-
1646. There are how many thrust be assembly? a)1 b)2 c)4		d in Auxiliary Generate of the above	erator Drive (b)
1647. Lube oil drain cock is located a) Accessory room c) under truck at loco left side	b) und	ler truck at loco righ	(b)
1648. Lube oil filter housing drain of a) Accessory room c) under truck at loco left side	b) und	in ler truck at loco righ de the strainer hous	
a) the engine must be shut down c) the engine must not be raise	n b) the	mpressor e engine must be run one of the above	(a) n in idle

a) Only TSC spin on filter c) Both, TSC soak back &		b) Only TSO	C soak back filter the above	(b)
1651. Bottom main bearing she a)2Years	ell is changed after b)3Years	c)6Years	d) None of the ab	(b)
1652. Top main bearing shell i a) 2 Years	s changed after b) 3Years	c) 6 Years	d) None of t	(c) he above
1653.Water system flexible ve a) T-360 & onward schedu c) 3 Yearly & onward sche	ıle		& onward schedule the above	(a)
1654. In DUROCAM all non-la) eliminate vibration b) el	_		surging d) all of	(a) the above
1655. CCB applies emergency a) 1.5kg/cm2 b)		P pressure di c) 2.5 kg/cm2		(c) ne above
1656. What is maximum permit TSC lube oil pressure a) 7 psi b) 8psi	issible pressure diffe c) 29psi	erence betwee	en main lube oil & d) all of the a	
1657. How much clearance is a a) 0.007"-0.025" b) 0.0	maintained in betwee	en idler gear (016"-0.039"	to stud shaft	(b)
1658. What is full Form of HO a) Hot Oil Device c) Heavy Oil Dilution	b)	Hot Oil Dete Heavy Oscill	ctor ation Damping De	(b)
1659. WDP4B locomotive has a) 4 b) 6	no. TM c) 4 or 6	d) ne	one of the above	(b)
1660. No. of teeth in Auxiliary a) 80 b) 37			d) 26	(d)
otherwise Engine will sha a)EPD low water button & b) EPD crankcase button & c)Only LLOB operation.	nut down due to LLOB operation. & LLOB operation		diately after engin	e start (a)

1662. During setting of injector timing is a)concerned power assembly at TI c)proper injector timing tool is using	DC b) OSTA is not trip condition	(d)
1663. Thrust clearance value of Auxilia a) 0.080"-0.120" b) 0.100"	ary Drive Gear is "-0.110" c) 0.133"-0.162" d) 0.130"-0	(c) 0.140"
1664. In HHP Locomotive duration of page 187° b) 113°	power stroke is c) 109° d)) 138	(c)
1665. HHP Locomotive cylinder head ha)20psi pressure with hot water c) 75psi pressure with not water	hydraulic test done at b) 50psi pressure with hot wat d) 90psi pressure with hot v	
1666. Gear ratio (pinion Gear: Bull Gea a) 18:65 b)17:77	ar) of WDP4D Locomotive is c)17:90 d)) None of the	(b) ne above
<u>-</u>	ed operated at a max speed of per minutes) b) 50 to 60 cycles(100 to 120strokes) d) None of the above	te (c
1668. Gap between TM blower intake rassembly i.e.MA/TM is a) 2.5 to 5 mm b)3.5 to 5mm	ring and blower wheel on both sides of wheel c)4.5 to 5mm d) none of the above	(b)
1669.Driver's backup valve handle is lo a)Both control console / desk c) Behind ALP seat	ocated b)Behind LP seat d) None of the above	(b)
1670. Don't open water tank pressurise a) filling water in c) pressing quick connector of	e cap withoutexpansion thank. b) releasing pressure of d) all the above	(b)
a) different connection of connector	k in HHP Loco it should be ensured that r & sensor of CCB System is removed c & sensor of Electrical System is removed nearest to the welding job	(d)
1672.Don't conduct Air Brake Self-Tes a) shutdown the locomotive c) securing locomotive	st without b) inserting reverser handle d) All of the above	(c)

a)single cab loc c)Duel cab loc		ıke		l cab loc el cab loco with	Hotel load	(а	ì)
1674.if pilot stud is a)1-2-3-4-5-6-7-8		-				_		
1675. Series of WD a) 12	DP4 b)20	c) 40		d)70		(b)
1676. WDP4BH is a) single cab loc c) Duel cab loc	co	ıke		el cab loco gle cab loco with	n Hotel load		d	1)
1677. What is the f a)High Tensile c)High Tensile	Steel Cast bog	gie		b) High Tensild)None of the			a oog	,
1678. Series of WD	OG4D is b) 20		c) 40	d) 70		(d)
a)Improper tord b) inadequate of c) Bent of dislo d) All of the abo	que on the injecter of the cated injector of	ector crab nu between the	ıt	and cylinder he			by	·:
1680. 15psi relief v a) Return sight			ass c) Empty sight gl	lass d) None	(a)
	eat area inside to cone out of rou clearance between	the injector and wrong a	nut angle or	caused by: contains surfac ad and body of t		(a)
1682. What is the f a) Restricted Air c) Restored Air	r Penalty Brak			apid Air Penalty Ione of the abov		(a)
1683. What is the f a) Automatic E c) Automatic E		own		omatic Emergen) None of the ab		(ake	b)

a) Low Lube Oil Buc) Low Lube Oil bi	atton of Governor	*	ube Oil Button ne of the above	(a)
1685. In spectrographic a) 0-75ppm	analysis of engine b) 0-50ppm	lube oil normal rate c) 0-20ppm	nge of Tin (Sn) is d)0-15ppm	(c)
1686. Series of WDP4B a)12	is b)20	c)40	d)7	(c)
1687.WDG4DD is a a)single cab loco c) Duel cab loco wi	th disc brake	b) Duel ca d) Duel ca	b loco b loco with Hotel lo	(c)
1688. Minimum Fuel oi a) 4.9 kg/cm2	l pressure of HHP b) 3.1 kg/cm2	Locomotive is c) 4.2 kg/cr	m2 d)2.1 kg.	(d) /cm2
1689. In EMDEC Engin a) a lube oil temper c) a temperature gar	ature sensor	eplaced with b) a ³ / ₄ " plo d) None of		(a)
1690. Diameter of the Ca a) 1/2" b) 1/4"	-	ressure sensing pip 1/8"	e line is	(d)
1691. Axle load of WDo a)21 T b)20.5 T		21.7 T		(d)
1692. During pre-lubric a)Only TSC Spin o c)Both TSC soak b	n filter	b)Only	y TSC Spin soak ba None of the above	
1693. Drivers backup ba a) 02 position	rake valve has b) 03 position	c) 04 positio	on d) 05 position	(b)
1694. Which of the follo a) V-Emergency Po c) ll-Running Posit	osition	in drivers backup l b)111-Lap Positio d) All of the above	on	(d)

•	be operated to hori be operated to vert	ve izontal position from verticatical position from horizont	
1696. During failure of with Maximum s	•	on to be clear by Drivers ba	ckup brake valve
a) 10kmph	b) 15kmph	c) 25kmph	d) 40kmph
a) it has Two positiob) During normal wo	n orking this cock sho	arding" Dead Engine Cock' ould be kept in horizontal puld be kept in vertical (900)	position
1698. No. of roller in Co a) 10	ompressor Drive cou b) 12	upling is c) 8	(a)
a) It has Two positionb) During normal w	on orking this cock sho	arding " Dead Engine Cock ould be kept in "OUT" posi uld be kept in "IN" position	tion
a) Doweling assemble b) Rotating assemble c) Gear drive assemble d) All of the above	oly y	turbocharger is	(d)
1701. The doweling asso a) 6 iron casting b) :	_	of g c) 5 steel forging unit d)	(a) None of the above
1702. Valve of Impeller a) 0.012"-0.025"	=	IHP Turbocharger at 3 0' C c) 0.016"-0.039"	_
1703. The doweling asso a) Compressor scroll c) Turbine bearing st		b) Compressor bearing sur d) All of the above	(d)
1704. The doweling asso	<u> </u>	c) Carrier bearing support	(d) d) All of the above

1705 is also known as the heart of many turbocharger. a) Doweling assembly b) Rotating assembly) Gear drive assembly d) All of the about	b) ove
1706. No. of teeth in governor Drive Gear is a) 37 b) 131 c) 80 d) 113	d)
1707. MR tank of HHP Locomotive is fitted at a) Left side of the locomotive c) Both side of the fuel tank (b) Right side of the locomotive d) None of the above	b)
1708. Nozzle ring is part of (base) a)Doweling assembly b) Rotating assembly c)Gear assembly d) All of the above	o) ove
1709. No. of teeth in Camshaft Drive Gear is a)26 b) 37 c) 79 d) 113	c)
1710. Exhaust diffuser is a part of a)Doweling assembly b) Rotating assembly c)Gear assembly d) All of the above	,
1711.Planet gear is a part of (c a)Doweling assembly b) Rotating assembly c)Gear assembly d) All of the above	,
1712. Carrier shaft assembly is a part of a)Doweling assembly b) Rotating assembly c)Gear assembly d) All of the above	/
1713. The passage between stationary vanes of nozzle ring is called (a a)Nozzle b) Cradle c)Diffuser d) None of the above)
1714.In 710-G TSC no. of blade in impeller is a)34 b)53 c)16 d) None of the above)
1715.In 710-G TSC no. of blade in turbine is a) 34 b) 53 c) 16 d) None of the above)
1716. In 710-G TSC impeller is made of a) Stainless steel b) Copper c) Aluminium d) Brass)
1717. In 710-G TSC impeller is made by a)Casting b)Forging c)Friction welding d) None of the above	_
1718. There are Silver –plated hydra-dynamic bearing is HHP TSC (da) 2 b) 3 c) 5 d) 6)

1719. "Labyrinth" seal used in the Turbocharger, basically is a a) Viton rubber seal b) P.T.F.E Teflon c)Air pressure seal d) None of the above
1720. Which "Labyrinth" seal is found in HHP a) Impeller Seal b) Compressor Seal c) Turbine Seal d) All of the above
1721.lmpeller seal is located a) Directly behind the impeller b) Between the turbine blades and the compressor bearing c) Between the turbine blades and the turbine bearing d) None of the above 1722. Which sight glass is fill up with bubble less fuel oil a) Return sight glass b) By-pass sight glass c) Empty sight glass d) None of the above
1723. Function of Impeller seal is to a) Prevent oil in the compressor bearing area from being drawn out into the compressor airscroll by the suction created on the impeller spin b)Prevent oil from migrating in to exhaust section from the compressor bearing c)Prevent oil From migrating into the exhaust duct from the turbine bearing d) All of the above
1724.Function of compressor seal is to a) Prevent oil in the compressor bearing area from being drawn out into the compressor air scroll by the suction created on the impeller spin b)Prevent oil from migrating in to exhaust section from the compressor bearing c) Prevent oil From migrating into the exhaust duct from the turbine bearing d)Allof the above
 1725. Function of turbine seal is to a) Prevent oil in the compressor bearing area from being drawn out into the compressor air scroll by the suction created on the impeller spin b) Prevent oil from migrating in to exhaust section from the compressor bearing c) Prevent oil From migrating into the exhaust duct from the turbine bearing d) All of the above
1726. FAD of HHP Loco compressor should not be less than a) 400LPM at 950rpm b) 5677 LPM at 950rpm c) 6000 LPM at 950rpm d) 7000LPM at 950 rpm
1727. Lube oil consumption of HHP Loco compressor should not be more than (a) a) 1.5 liters/month b) 2.0 liters/month c) 3.0 liters/month d) 3.5 liters/month

1728. In HHP lo a) 100°C	co compressor dischar b) 150°C	rge air temp .at HP o c) 200°C	utlet many allowed d) 250°C	up to(c)
	U, loading & unloading of leading loco	ng of compressor of b) MVCC of trailing d) None of the abov	g loco	onized by(c)
b) Unloadi c) Loading	of compressor of bothing of compressor of bothing of compressor of bothing of comparts with the comparts of comparts with the comparts of	oth loco is occurred a ressor of both loco is	at same pressure s occurred at same p	
1731. In HHP Lo of a) 30° betw c) 60° betw		b) 45°t	or are arranging with between them.	th an angle (c)
1732. Rising Co	pper levels in lubricati asher wear b) Piston			(a) of the above
a) 0.070"-I		d wear reading	ing	(c)
	sher wear in a power p in head wear reading to b		ing clearance	(c)
1735.To check T piston to 1 a)TDC	Thrust washer wear by be kept in b)BDC	" absolute snap ring c)450 after TDC		(b)
	ge spring seat is made b) Bronze c)		ne of the above	(b)
	linder pressure check (d power assemblies pi b)BDC		THP Locomotive	(a)

a) Bend valvb) Trapped of	ve stem leposits between val ely worn valve seats	wer assembly can be lves and correspondi		(d)
1739. Maximum s a)817rpm	peed of traction mot b)2898rpm	or blower of WDG4 c)3342rpm	D Locomotive is d) None of the above	(c)
1740. No.3 Compra) 0.010"	ression ring to land i b) 0.012"	maximum permissible c) 0.015"	le clearance is d) 0.018"	(b)
1741. Fins of after	cooler core is made	of		(b)
a) Brass	b) Copper	c) Tin	d) None of the	he above
1742. In HHP Loc a)110mm		k to wheel clearance 9.1mm to 31.8mm	in no.1 & 6 wheel dis d) None of the above	, ,
top of the ta a) About 4 ½	_	b) About 7 ½" bd) None of the a	pelow the top	(a)
	mounting bolt is tor b) 100ft-lbs.	que at c) 250ft-lbs.	d) 50ft-lbs	(a)
a) lts maxi	nel supply. Hold the mum governor rack minimum governor i	•	t s minimum governor r one of the above	(a)
1746. Minimum fl a) 35° C	ash point of HSD is b)194° C		d) None of the	(a) e above
a) Isolating	injector b y shaft at its maxim	ing testing fuel supp)Isolating FPM um governor rack le		(c)
-	wound valve spring	broken problem EM g b) Right hand w d) None of the		of (b)

a) 3340rpm b) 4492rpm		-	? 8400rpm	(a)
1750. In spectrographic analys a) 0-75 rpm b) 0-50rpm	_		-	(b)
1751.What is the full from of I a) Engine Control Panel c) Electrical Control Pan	b) E	Emergency Control d) None of the ab		(a)
1752. Which of the following latesting a) ZYGLO testing	NDT process is us		enerator drive shall) None of the ab	(a)
1753. In which schedule heigh a) T-30 & above b	_	c rail guard is meas c) T-180 & above		
1754.Which oil is filled in HH a) RR460	P loco gear case b) SP100	c)RR606	d) SP57	(a)
1755. Which type of CBC is fi a) E-type	tted in WDP4D I b) F-type	Locomotive c) H-type	d) None of th	(c) ne above
1756. How many magnetic pol a) 8pole b) 12p			all speed? d) None of the al	(a)
1757. "Finger tightness check" a) Basket to con rod bol c) Water inlet tube in lin	lts	b) Basket to bas d) All of the abo		(a)
1758. Lube oil relief valve is lo a) On the left side of the c) On the left side of the	e engine	·	right side of the	(a) engine
1759. In HHP Locomotive nor a) 70-90° C	rmal lube oil outle b) 70-80° C	t Temperature is c) 80-90°C	d) 80-99°C	(d)
1760. No. of teeth in Scavengian a) 79 b)	_	Drive Gear is	d) 64	(b)
1761.During compression pres a) approximately 06 revol c) approximately 15 revol	lutions		nately 12 revolut	

a) 1000 CFM	baggy filter is b) 1500 CFM	c) 2000 CFM	d) 2500 CFM	(d)
1763. On.4 Compression a) 0.010"	ring to land maxin b) 0.012"	num permissible clea c) 0.015"	arance is d) 0.018"	(c)
1764. During engine start a) 954rpm	ing starter motor r b) 1035-1050r		Orpm d) 1200-4	(d) 4800rpm
a) WDP4 pinion dia b) WDG4 pinion dia c) pinion of WDG4 d) All of the above	ameter is larger tha ameter is larger th	an WDG4 pinion	P Locomotives pi	nion?(a
1766. Codal life of after can be a) 6 years	cooler is b) 10years	c) 12years	d) 18years	(b)
1767. Codal life of lube of a) 6 years	oil cooler is b) 10years	c) 12years	d) 18years	(b)
1768.How many horn are a) 1	fitted on the roof b) 2	HHP Locomotive c) 3	d) 4	(d)
1769. Water percentage in a) Hydro gauge		•	eter d) Tens	ometer
1770. Greyish blue smoke a) Incomplete comb c) Water ingress in	oustion of fuel oil	b) Lube o	oil burning in com of the above	(b) bustion
1771. MP.MISC-285is re a) Schedule of stan b) Reliability and q c) TSC fitment and d) Commissioning	dard examination (uality issues of Po matching procedu	ire		(a)
1772. In HHP Locomotiv a) T-30 & above so c) T-90 & above so	hedule	on filter is changed b) T-60 & above sold) T-180 & above so	nedule	(d)

a) 85mm above r	•	in a flood water level of b) 102mmabove rail le d) 205mm above rail le	vel
	•	ted in the traction motor c) Air pressure sensor	? (b) d) All of the above
1775. Normal horsepov a) 855hp		motives traction motor is	None of the above
1776. Maximum startin a) 400kn	g tractive effort of V b) 540kn		(a) None of the above
1777. In spectrographic a) 0-75ppm	analysis of engine b) 0-50ppm	lube normal range of iro c) 0-20ppm	n (Fe) is (a) d) 0-15ppm
1778. Piston to cylinder a) 0.13 mm	head maximum cle b) 0.51 mm	earance in new power ass c) 1.73 mm	sembly is (c) d) None of the above
b) Intermediate (c) Rear and inter	nt assembly are fitte ermediate front char chamber assembly mediate rear chamb Turbocharger assem	mber assembly oer assembly	(d)
1780. Which of the foll a) APU	_	re recently fitted in HHF c) CREDI d) A	P Locomotive (d) ll of the above
1781.70psi valve is loca a) Return sight gla		glass c) Empty sight glass	(b) assd) None of the above
1782.Acording to shape a) 01type	e, type of main beari b) 02type	ing used in HHP Locome c) 03type d) 04	
1783. In WDP4/4 Loco a) 7-9 seconds	motive independent b) 8-12 seconds	c) 16-30 seconds	ne is (b) d) 15-20 seconds
1784Gear is att	ached with the carri b) Planet gears	er. c) Ring gear	(b) d) None of the above
1785.Piston stroke o W a) 10"	DG4/4D engine is b) 10.5"	c) 11"	(c) d) None of the above

a) Front end to rear end b) Rear end to		` ′
1787. Hand brake return spring is located a) Inside the hand brake assembly c) At under frame	b) At compressor room d) None of the above	(c)
1788. Big "Y" header is located at a) Front end of the engine c) Middle of the engine	b) Rear end of the engine d) None of the above	(a)
1789. Purpose of the jacking pad is to suppa a) Run c) Middle of the engine	b) Rear end of the engine d) None of the above	nile (d)
1790. Function of soak back lube oil systema.) Lubricate the TSC gear train before c) Middle of the engine		
1791. HVAC fitted in HHP locomotive. Wa) Heating Ventilating and Air Condition (c) High Voltage Alternating Current		(a) ioner
1792. Epicyclic gear trains are used in HH gear trains is to a) Obtain high velocity ratio in comparts) Obtain the desired direction of motion (c) Transmit power when the distance by d) None of the above	ratively lesser space on of drive gear	Epicyeclic (a)
1793. Lube oil is filter is filtered up to a) 600μ b) 13μ c) 02μ	d) None of the above	(b)
,	nkshaft. From damage due to hydraulic lock. proximately 30rpm during the first of d) All of the above	(d)
1795.Onload condition TSC is driven up to a) 5th notch b) 6thnotch	othrough gear train. c) 7th notch d) 8th notc	(b)

a) Clutch test b) Turbocharger oil pressure test c) Run down time test d) All of the above	1)
1797. Injector control shaft & governor control link is connected through a) Ball bearing & nut-bolt. b) Roller bearing & nut-bolt c) Needle bearing & nut-bolt d) Taper roller bearing & nut-bolt)
1798. If lube oil is emulsified ,then a) Replace all lubrication oil filters c) Inspect & replace one upper main bearing d) All of the above	_
 1799. During EPD testing if throttle is above third notch then shut down will occur in (a) Approximately 60 seconds. b) Approximately 40 seconds. c) Approximately 35 seconds. d) Approximately 02 seconds. 	d)
1800. Lube oil pressure is lowest at the a) Rear of the engine c) Immediate after lube oil relief valve . (a b) Front of the engine d) None of the above)
1801. Planet gear engage with the sun gear at interval. a) 600 b) 900 c) 1200 d) None of the above)
1802. Which of the following crankshaft journal does not have a hole for lube oil? (ba) 1 b) 5 c) 10 d) None of the above)
1803. Screen of exhaust screen assembly is made of a) High speed steel b) Chromium stainless steel c) SAE 1050 Steel d) None of the above)
1804. Water seal of modified water pump is made of a) Copper b) Bronze c) Carbon d) Rubber)
1805. TSC compressor bearing oil passage pipe plug is located at a) Right side of the TSC b) Left side of the TSC c) Both side of the TSC d) None of the above	
1806. No. of teeth in Main Lube Oil Pump Drive Gear is a) 79 b) 113 c) 64 d) 80	
1807. Which of the following is the reason for high exhaust gas temperature (d) a) Improperly timed fuel injector b) Incorrect valve timing c) Worn injector tips d) All of the above	

1808. Cylinder liner is	made by		(a	ι)
a) Casting	b) Forging	c) Welding	d) None of the	above
1809. Specified limit of a) ± 0.005 "	f compressor radia b) ±0.010"	l run out is c) ± 0.015 "	d) ±0.020"	b)
1810. TSC Spin on filte a) 2µ	er up to b) 6µ	c) 13µ	d) 30μ	l)
α / 2μ	υ) ομ	<i>c)</i> 13μ	α) 30μ	
a) No. 7 main bear c) No. 8 main bear	ring journal	_	bearing journal e above	(a)
1812. Roller bearing of a) T-360 & above c) 3 yearly & above	schedule	haft is changed during b) T-720 & ab d) 6 yearly scl		(d)
1813. In spectrographic a) above 150ppm c) above 75ppm	(b)	e lube oil High range of above 125ppm above 50ppm	of Iron (Fe) is	(b)
1814. In HHP Locomot	tive how many braid b) 6		n a truck d) 16	(a)
1815. In HHP Locomot a) 0.005"	tive valve stem to vb) 0.008"	_	clearance is d) 0.012"	(c)
1816. In HHP Locomot a) T-30 & above s c) T-90 & above s	schedule	l is changed during b) T-60& abo d) T-180 & ab		(d)
1817. Free air delivery a) 4000 LPM	of ELGI compress b) 5000 LPM	or is c) 5380 LPM	d) 6000	(c) LPM
1818. Minimum lube of a) 8 psi	il pressure of Com b) 15 psi	pressor at low idle spe c) 20 psi	eed at 60o temp is d) 25-29 psi	s (b)
1819. WLG model com a) 3 cylinders	npressor has b) 4 cylinders	c) 6 cylinders	d) None of	(c) the above
1820. HHP Locomotive a) 3 cylinders	e compressor has b) 4 cylinders	c) 6 cylinders	d) None of th	(a) ne above

a) Spring type b) Diaphragm type c) Reed type d) None of the above	ve	c)
1822. In HHP Locomotive compressor which type sump is used a) Deep sump oil pan b) Shallow sump oil pan c) Narrow sump oil pan d) None of the above	(c)
1823. In HHP Locomotive compressor which type lube oil pump is used a) Plunger type oil pump b) Gear type oil pump c) Reed type oil pump d) None of the above		b)
1824. Purpose of cylinder head seat ring is a) to maintain proper piston to head clearance b) to provide proper setting surface of the cylinder head c) to provide sealing between cylinder head & crankcase head retainer d) All of the above	(d)
1825. To tighten the injector rocker arm adjusting screw turning is a) Counter clockwise b) Clockwise c) Any direction d) None of the	(ab	b ove	
1826. Maximum speed of WDP4D Locomotive a) 105kmph b) 165kmph c) 140kmphd) 160kmph	(b)
1827. In HHP Locomotive what is permissible difference in wheel diameter on the same Locomotive a) 0.5-2.5 mm b) 02-08mm c) 15-25mmd) Nome of the above	(c)
1828. In HHP Locomotive duration of scavenging period is a) 43.5° b) 113° c) 110.5° d) 138°	(c)
1829. In HHP Locomotive duration of exhaust period is a) 87° b) 113° c) 16.6° d) 138°	(d)
1830. To apply emergency brake. Fireman emergency brake handle is a) Operated to downward b) Lifted to Upward c) Operated Upward d) None of the above	(b)
1831. How many ABD are fitted in HHP Locomotive a) 1 b) 2 c) 3 d) 4	(b)

1832. Normal position of fireman emergency brake handle is a) Downward b) Upward c) In middle position d) None of the above
1833. Height of WDG4D Locomotive over AC is a) 4.22 meters b) 4.25 meters c) 4.20 meters d) None of the above
1834. Thickness of HHP fuel tank plate is a) 5-6 mm b) 6-7 mm c) 7-8 mm d) None of the above
1835. Fuel tank capacity of WDP4 Locomotive is a) 5000Litres b) 6000Litres c) 6500Litres d) 4000Litres
1836. Axle load of WDP4D Locomotive a) 21T b) 20.5T c) 20.25T d) 19.5T
1837. Length of WDP4 Locomotive is a) 21T meters b) 21.24 meters c) 21.7 meters d) None of the above
1838. Which of the following pair contain the same no. of teeth a) sun gear & water pump gear b) Accessory drive gear & Governor c) Left side cam gear & right-side cam gear d) All of the above
1839. Fuel flowing in By-pass sight glass indicates that a) Fuel oil spin on filter is chocked b) Fuel oil primary filter is chocked c) Fuel oil suction strainer is chocked d) All of the above
1840. Which sight glass is always being empty a) Return sight glass c) Both return & by-pass sight glass d) None of the above
1841. Backlash of auxiliary generator is measured by a) filler gauge b) "C" clamp, Magnet block & dial gauge c) Lead wire d) None of the above
1842. Injector timing is measured by a) Vernier caliper b) Timing tool c) Outside micrometer d) Filler gauge
1843. TSC rpm is measured by a) EPU b) TPU c) SLM d) Pyrometer
1844. Crank shaft rpm is measured by a) Tachometer b) Vibration meter c) Decibel meter d) Pyrometer

	b) Magnet block & d	lial gauge		(8	a)
c) Lead wire	d) None of the above	9			
1846. Exhaust valve timing is m a) Vernier caliper b) Tim	<u> </u>	gauge d) Magr	net block & d	`	d) luge
1847. Weight of WDP4 Locomo a) 126 T b) 12	otive is 23 T c) 121	.2 T	d) 117 T	((d)
1848. Fuel tank capacity of WD				(;	a)
		6500Litres	d) 4000Li	,	~)
1849. In HHP Locomotive what the same axle?	is permissible differ	rence in . on	U	(8	a)
a) 0.5-2.5 mm b) 02-0	08mm c) 15-2:	5mm d) N	lone of the ab	ove	
1850. In HHP Locomotive what on the same bogie?				`	a)
a) 3.2 mm to 6.4 mm b)	5.2 mm to 6.4 mm	c) 1.2 mm to	3.4 mm d)	None	e
1851. Valve of backlash between a) 0.012"-0.025" b) 0.0000000000000000000000000000000000		o TSC Idler gear c) 0.016"-0.039"		((6°'-0.0	,
1852. Maximum speed of WDG a) 100kmph b) 105kmp		d) 160kmp	h	(a)
1853. If Cylinder head seat ring a) Crankcase head retainer	_	b) Oil throw	ing from will		d) ease
c) Crankcase vacuum will	destroy	d) All of the	above		
1854. Injector Timing Plate is lo a) Right rear side of the eng b) Left rear side of the engi c) Right front side of the eng d) Left Front side of the eng	gine crankcase ne crankcase ngine crankcase			(a)

Technical Objective Bit bank

Three Phase Locomotives:

1			isolate pantograph position and close			to selector switch in OC.	(C)
	A	Auto,	PAN-1 & 2		В	II, PAN-1	
	C	I, P	AN-2		D	I or II, PAN-1 or 2	
2			co, COC sho	ould be o	open for o	charging BP pressure	(B)
	A	70			В	47	
	C	74			D	136	
3		e 3Ø locc 70 COC	o working as banke	er, put o	n	switch and	(B)
	A	ZTEL			В	ZBAN	
4		BLHO esetting \ secon		WAP 7	D loco (E-	None of the above 70 brake system), wait	(D)
	A	120			В	100	
	C	240			D	160	
5	In 3Ø	loco, SS	S-17 belongs to		sı	ıb system.	(C)
	A	Fire De	tection		В	MEMOTEL	
	C	Process	sor FLG-1		D	Processor FLG-2	
6	To pe positi		unting with 3Ø loo	co, keep	•••••	switch in	(C)
	A	154 ;	0		В	154 ; 1	
	C	160;	0		D	160 ; 1	
7		lated, wo	g with WAP-7 or Vork with normal spory converter-1		r isolating	t load, if Harmonic filter g Fraction converter-1 & 2	(D)
8		loco, Ba	ry converter-2 attery charger is ge y converter No. 1	etting su		Traction converter-1 1 Auxiliary converter No. 2	(C)
	C	Auxiliar	y converter No. 3		D	Traction converter No. 1	
9		_	ing 3Ø loco, if UB glowing check, M			ing "0" and corridor	(C)
	A 10	00,110		В	110,112		
	C 11	2, 112.1		D	100,112	.1	

10	In 30 kept	loco, for charging of BP pressure open.		COC to be	(B)
	A	A-8	В	70	
	C	74	D	47	
11		b loco, if battery voltage drops below hut down.	••••	volts, loco	(A)
	A	82	В	87	
	C	90	D	92	
12		loco, Battery charger output MCB No is at	. is .	and its	(B)
	A	110; SB1	В	110; SB2	
	C	100; HB1	D	100; HB2	
13		loco, VCD is required to be acknowled of speed.	dged	l from	(C)
	A	5	В	1	
	C	1.5	D	15	
14		ng loco brake testing of WAG-9 or WA up to KN.	P-7,	loco should not to	(B)
	A	100	В	150	
	C	300	D	125	
15		led asmode.	more	e than 60 seconds	(B)
	A	VCD isolation	В	Dead man	
	C	VCD acknowledgement	D	None of the above	
16		loco, Constant speed control (CSC) ca kmph of speed.	ın be	activated above	(A)
	A	5	В	1	
	C	1.5	D	15	
17	In 30 A	loco, Auxiliary converter No.2 feeds. Traction motor blower-1 & 2		motors Transformer oil pump-1 & 2	(D)
	C	SR Oil pump-1 & 2	D	all the above	
		Thile clearing 3Ø loco (provided with Kech position in both cabs is	Cnor	brake) as dead, mode	(D)
	A	HLPR	В	Lead	
	C	Test	D	Trail	

19	automatically if BP pressure drops (with or without A9) more than Kg/cm ² .				
		1	В	1.5	(C)
	C	0.25	D	0.6	
20	In 3Ø	loco, SS-10 belongs to	S	ub system	(B)
	A	Battery	В	Brake system	
	C	Auxiliaries HB1	D	Auxiliary Converter No. 3	
21	In 3Ø	loco, location of TM Blower-1 is			(B)
	A	Machine room No.1 (near cab-2)	В	Machine room No.2 (near cab-1)	
	C	Under machine room No.1	D	Under machine room No.2	
22		loco, if vigilance penalty brakes are ap kg/cm ² (Gauge reading) in E.70 bra			(B)
	A	2	В	2.5 to 3.0	
	C	2.5 to 3.5	D	0	
23		ZTEL is switched ON Tractive Effort n WAG-9.	(TE) is limited to	(B)
	A	0.8 to 1.5	В	300	
	C	150	D	458	
24	Maxir	num permissible speed of WAG-9 loca	o is .	Kmph.	(A)
	A	100	В	130	
	C	140	D	160	
25		loco, on moving BL key from 'D' to ' brakes will apply automat		=	(C)
	A	Direct brakes	В	Auto brakes	
	C	Parking brakes	D	All brakes	
26		loco, parking brakes are applied and ro switch in Panel 'A'.	eleas	ed through	(C)
	A	Solenoid valve	В	BPCS	
	C	BPPB	D	None of the above	
27	In 3Ø	loco, SS-14 belongs to su	ıb sy	rstem.	(B)
	A	Cab 1	В	Cab 2	
	C	Fire detection	D	Auxiliaries in HB 2	
28		loco, If ZBAN is switched ON in wor	king	cab,	(A)
	A	BP pressure drops to 'O'	В	FP pressure drops to 'O'	
	C	BC pressure raises to 3.5 kg/cm ²	D	None of the above	

29	Hotel	l load facility is available in		loco(s).	(C)
	A	WAP-5	В	WAP-7	
	C	All WAP-5 and modified WAP-7	D	All three phase locos	
30		e phase loco is having rerter (s).	number	of auxiliary	(C)
	A	1	В	2	
	C	3	D	4	
31	In 3	8Ø loco, SS-18 belongs to		sub system.	(D)
	A	Fire Detection	В	MEMOTEL	
	C	Processor FLG-1	D	Processor FLG-2	
32		O loco, to close the DJ, ensure mation on screen (in driving		node mode).	(B)
	A	FLG-504	В	FLG-550	
	C	FLG-570	D	FLG-590	
33	Total	oil /coolant points in WAG 9 or WA	AP 7 loc	cos are	(C)
	A	7	В	6	
	C	13	D	8	
34	_	oply parking brakes in 3Ø dead locoger of solenoid valve.	, press.	side	(A)
	A	Left	В	Right	
35		Any plunger phase loco is havingiary motors.	D no. of t	None of the above hree phase	(C)
	A	16	В	22	
	C	12	D	13	
36		bloco, UBA meter needle deviates v mode(s) of BL key.	when BL	key is in	(C)
	A	Driving	В	Cooling	
	C	Driving or Cooling	D	None of the above	
37	-	eed of the train is increased more that, emergency brake will app	nn ply in 30		(C)
	A	0.5%	В	5%	
	C	10%	D	50%	
38		loco, battery charger input MCB N	lo. is	and located	(B)
	A	100 , HB-1/BUR2	В	100, HB-2/BUR2	
	C	112.1 ,SB-2/SR2	D	112 , SB-1/SR1	

39		loco, if speed is more than visual indications will appe		loco MPS, only	(B)
	A	0.50	В	5	
	C	15	D	50	
40	Parki	ng brake is provided to	wheels in W	AG-9 loco.	(B)
	A	1, 4, 5 & 8	В	2, 6, 7 & 11	
	C	2 & 11	D	1, 6, 7 & 12	
41	Over	current relay in 3Ø loco is			(C)
	A	OCR-86	В	MVR-86	
	C	OCR-78	D	None of the above	
42		gradient area and te control (CSC) of 3		ards Constant uld not be used.	(C)
	A	Up	В	Down	
	C	Undulating	D	Steep down	
43		AG-7 or WAP-4,fields during RB.	ot	atput is given to all	(B)
	A	RSI-1	В	RSI-2	
	C	Both RSI-1 & RSI-2	D	None of the above	
44		e working 3Ø loco as banker natic panel.	, close	cocs in	(A)
	A	70& 136	В	70&74	
	C	74&136	D	All the above	
45	In 3Ø	loco, to reset the Fire detec	tion unit (FDU)	press thebutton.	(B)
	A	BPFA	В	Press Reset button on Fl	DU
	C	ESPB	D	BPVR	
46		loco,s only in cooling mode.		auxiliary moto	rs (C)
	A	All three Ø and single Ø motors	В	All single Ø motors and MCP 1 & 2	
	C	Only single Ø motors & MCPA	D	None of the above	
47		loco, if 'Catenary voltage of the first low			(D)
	A C	FL No need to Change	В D	CCBA Potential Transformer	
48	In 3Ø	loco, SS-09 belongs to	S	ub system.	(A)
	A	Battery sytem	В	Brake system	
	C	Auxiliaries HB-1	D	Auxiliary converter No.3	

49	In 3Ø	Knorr Bremse brake loco, rear cab	mode s	witch position is	(C)
	A	HLPR	В	Lead	
	C	Trail	D	Test	
50	To res	set VCD in WAP-5 loco, wait for		seconds.	(D)
	A	0	В	160	
	C	240	D	120	
51		loco, cab changing is to be done with wise CE will switch OFF.	th in	minutes	(A)
	A	10	В	0	
	C	15	D	20	
52		locos, in cooling mode, for panto are creates pressure.	nd DJ		(B)
	A	MCPs	В	MCPA	
	C	Both A and B	D	None of the above	
53		loco potential transformer is connec Middle		roof bar. Panto-1	(A)
	C	Panto-2	D	None of the above	
54	-	osition of mode switch in leading ca Knorr brake is	b of 30	loco provided	(B)
	A	HLPR	В	Lead	
	C	Trail	D	Test	
55	In 3Ø	loco, normal position of 152 switch	is		(A)
	A	'0'	В	'1'	
	C	'NORM'	D	None of the above	
56	In 3Ø	loco, SS-16 belongs to	sub sy	stem.	(C)
	A	Cab-2	В	Fire detection	
	C	Memotel (Speedometer)	D	Processor FLG-1	
57	In 3Ø	loco, SS-04 belongs to		sub system.	(D)
	A	Traction bogie-1	В	Traction bogie-2	
	C	Main power	D	Harmonic filter	
58	In 3Ø	loco, SS-08 belongs to	sub sys	stem.	(C)
	A	Auxiliary converter No.1	В	Auxiliary converter No.2	
	C	Auxiliary converter No.3	D	Battery	
59		loco provided with Knorr Bremse be locked or unlocked in			(C)
	A	Emergency	В	Neutral	
	\mathbf{C}	Full service	D	Minimum reduction	

60	3Ø lo	co is having number of	roof	bars.	(B)
	A	2	В	3	
	C	4	D	3+3	
61	3Ø lo	co having number of addition (total COC on both sides).	nal (COCs	(B)
	A	4	B	4 + 4	
	C	16	D	2	
62	In 3Ø	loco, SS-05 belongs to	sub	system.	(B)
	A	Harmonic filter	B	Hotel load	
	C	Brake system	D	Fire detection	
63		G-9 loco is provided with No ders and No. of parking brake cy			(A)
	A	12 & 4	В	12 & 12	
	C	4 & 12	D	12 & 6	
64	3Ø lo	co is fitted withtype of	tract	ion motors.	(A)
	A	3 Ø AC Asynchronous squirrel cage induction motor	В	TAO 659	
	C	Hitachi	D	Hitachi or TAO 659	
65		loco, position of control Electronics (Cigning is			(C)
	A	OFF	В	ON	
	C	Self hold mode	D	None of the above	
66	In 30	loco, location of BPFL switch is	• • • • •		(B)
	A	FLCU	В	In both cabs Panel A	
	C	In both cabs Panel B	D	In both cabs Panel C	
67		ove 3 Ø loco as live or dead ensure brakes are released.	• • • • •	&	(C)
	A	Parking brakes, proportional	В	Direct brakes, proportional	
	C	Parking , Direct brakes	D	None of the above	
68		loco, if throttle (ATDC) is failed, keep position.		switch in	(B)
	A	154,0	B	152,1	
	C	152,0	D	160,1	
69		loco, when parking brakes are applied, s	par	king brake gauge	(A)
	A	0 Kg/cm2	В	4 Kg/cm2	
	C	3.5 Kg/cm2	D	6 Kg/cm2	

70	In 30	loco, SS-15 belongs tos	ub sy	stem.	(B)
	A	Cab-2	В	Fire detection	
	C	Memotel (Speedometer)	D	Processor FLG-1	
71		loco, to isolate pantograph No.1, kee	p pan	to selector switch in	((()
		Position	D	T	(C)
	A	Auto	В	I	
70	C	II	D	I & II	(A)
72		tion of Emergency stop push button sv			(A)
	A	In both cabs Panel A	B -	In both cabs Panel B	
	C	In both cabs Panel C	D	In both cabs Panel D	
73		G-9 or WAP-7 locos are havingoth primary and secondary suspension		number of dampers	(B)
	A	16	В	20	
	C	40	D	10	
74	Locat	tion of MCP-2 in 3 Ø loco is			(B)
	A	Loco left side below Machine room No.1	В	Loco right side below Machine room No.2	
	C	Machine room No.1	D	Machine room No.2	
75		loco, glowing of BPFA and flickeringfault.	g of L	LSFI indicates	(B)
	A	Isolation of sub system	В	Priority-1	
	C	Priority-2	D	Both Priority-1 & 2 faults a time	at
76	In 30 seco	locos, VCD is required to acknowled nds.	ge on	ace in every	(B)
	A	8	В	60	
	C	68	D	160 in WAG-9 or WAP-7 120 in WAP-5	&
77	In 30 A	loco, on run glowing of BPFA alone Priority-1	indica B	One of the sub system is isolated	(C)
	C	Priority-2	D	Priority-1 fault or Priority-fault	-2
78	Locat	tion of Harmonic filter resistances in 3	Ø loc	eo is	(A)
	A	Loco roof	В	Inside FB	
	C	Machine room No-2	D	By the side of pneumatic p	anel

79	(isolated sub system), procedure is				
	A	Switch OFF and switch ON CE	В	Reset concerned MCB	
	C	Close concerned COC	D	Operate concerned rotating switch	
80	In 30	loco, Status code '00' means			(D)
	A	Major fault in loco	В	No sub system isolated	
	C	Minor fault in loco	D	No fault and No sub system isolated	
81	In 30	loco, Auxiliary converter No.3 feeds		Motors.	(D)
	A	TMB 1&2	В	MCP-1 & 2	
	C	OCB 1&2	D	TFP PUMP 1&2	
82		loco, In case of emergency, ALP can	stop	the train by	(D)
	A	Emergency stop switch	В	Emergency brake valve	
	С	BPVG	D	Emergency stop switch or Emergency brake valve	
83		loco, Constant speed control (CSC) vottle is disturbed above % in		•	(C)
	A	33%	В	66%	
	C	3%	D	No such limit, on moving throttle	
84	WAC	4-9 loco is havingtype of	bogie).	(C)
	A	Bo-Bo flexi coil	В	Co-Co Tri mount	
	C	Co-Co flexi coil	D	Co-Co tetra mount high adhesion	
85	3Ø lo	co having number of single phase	415V	auxiliary motors.	(B)
	A	12	В	4	
	C	8	D	13	
86		loco, Machine room blowers & their in		enging blowers	(D)
	A	Driving mode only	В	Cooling mode only	
	C	Off	D	Driving mode & Cooling 1	node
87	In W	AG-9 or WAP-7, location of air dryer	is		(C)
	A	Behind MCP-1 in left side	В	Between two trucks	
	C	Behind cattle guard-1 loco pilot side	D	Behind cattle guard-1 in ALP side	
88	In 3Ø	loco, SS-06 belongs to		sub system.	(A)
	A	Auxiliary converter No. 1	В	Auxiliary converter No. 2	
	C	Auxiliary converter No. 3	D	Traction converter No. 1	

89	In 3Ø	loco, Continuous glowing of LSF	I indicate	S	(B)
	A	Priority-1 fault	В	At least one sub system is isolated	
	C	Priority-2 fault	D	Priority-1 fault or Priority-2 fault	2
90	In 3Ø	loco, location of MCP-1 is			(D)
	A	In machine room No.1	В	In machine room No.2	
	C	Below machine room No.2	D	Below machine room No.1	
91		loco, 3Ø scavenging blower colle &		rom air filters	(D)
	A	Oil cooling blowers-1&2	В	Bogie blowers-1&2	
	C	Machine room blowers- 1&2	D	Oil cooling blower & Bogi blower	e
92		loco, to operate reverser ensure MR pressure should be more than			(C)
	A	FLG-504	В	FLG-550	
	C	FLG-570	D	FLG-590	
93		loco, when harmonic filter is isolated to	ated, spee	ed of the train is	(B)
	A	60 Kmph.	В	40 Kmph .	
	C	25 Kmph.	D	No such restriction	
94	In 30	loco, location of Fire detection un	it (FDU)	is	(B)
	A	SB-1	В	SB-2	
	C	HB-2	D	Panel	
95		oportional working, maximum brak G-9 loco iskg/cm ²	ke cylinde	er pressure in	(B)
	A	1.8 kg/cm2	В	2.5 kg/cm2	
	C	3.5 kg/cm2	D	5 kg/cm ²	
96		oco is having	3 phase a	uxiliary motors in	(B)
	A	2	В	4	
	C	12	D	8	
97	MCP	pressure is below 5.2 Kg/cm ² and A starts automatically provide position.			(C)
		"С"	В	"D"	•
	C	"C" or " D"	D	None of the above	

98		loco before operating throttle, ensure nation on screen.	• • • • •	1	node	(D)
	A	FLG-504	В	FLG-	-550	, ,
	C	FLG-570	D	FLG	-590	
99	In 3Ø	loco, SS-03 belongs tosub s	syste	m.		(B)
	A	Traction bogie-1	В	Trac	tion bogie-2	
	C	Main power	D	Harn	nonic filter	
100	In 3Ø	loco, Oil cooling blower cools&	O	ils/ wa	ter coolant.	(C)
	A	SR-1, SR-2	В	TFP-	1, TFP-2	
	C	TFP & SR	D	Tract	ion motors	
101		loco, to isolate truck No.1 (traction co switch in position.	nver	ter-1),	keep	(A)
	A	154, I position	В	154,	II position	
	C	154, Auto position	D	154,	I & II position	
102		loco, if battery voltage drops to essage appears.	vo	lts for	30 seconds,	(A)
	A	92 Volts	В	82 V	olts	
	C	90 Volts	D	85 V	olts	
103		loco, for application of parking brakes	spe	ed sho	uld be	(A)
	A	5 Kmph	В	15 K	mph	
	C	1.5 Kmph	D	Zero	Kmph	
104.	In G7	O locos, Speed is not increasing more	than	1 km	oh with ASC1.	
	Tach	o generator error (DDS Message), isol	ate			(C)
	A.	Isolate SR-2	B.	Isola	te BUR-1	
	C.	Isolate SR-1	D.	Isola	te Bur-2	
105.	Befor	re operating 160 switch, procedure to b	e fol	lowed	is	(D)
	A.	Keep throttle on '0'.	B.	Stop	the loco	
	C.	Keep reverser on '0'	D.	all th	ne above	
106.	VCD	resetting time in CCB2.0 locos is		•••		(B)
	A.	Minimum 120 Sec.	B.	32 Se	ec.	
	C.	Minimum 160 Sec.	D.	Mini	mum 60 Sec.	
107.	Loca	tion of bogie-1 brakes isolation COC i	s			(C)
	A.	Underneath loco body, above MCP-2		B.	Left side of pn.panel	
	C.	Underneath loco body, above MCP	-I	D.	In front of pn.panel	

108.	In 3 pl	nase locos modified procedure for Bog	ie-1 is	solation on run is	(D)
	A.	Keep throttle on '0' & Open VCB	B.	Observe Node 550	
	C.	Keep 154 switch on 1	D.	All the above.	
109.	Locati	on of bogie-2 brakes isolation COC is.			(A)
	Α.	Underneath loco body, above MCP	-2	B. Left side of pneumati	ic panel
	C.	Underneath loco body, above MCP-I		D. In front of pneumatic	panel
110.	Locatio	on of MCB 112 is			(B)
	A.	Near BA box-1	В.	Near BA box-2	
	C.	In SB-2	D.	In SB-1	
111.	Location	of MCB112.1 is			(C)
	A.	Near BA box No.1	B.	Near BA box No.2	
	C.	In SB-2	D.	In SB-1	
112.	If MCE	not switching OFF with BL key,	. MC	CB to be tripped/kept OFF.	(D)
	A.	100	B.	110	
	C.	112	D.	112.1	
113.	In PTD	C mode, cock to be opened	on F	Pneumatic Panel.	(C)
	A.	74	B.	136	
	C.	PERCOS	D.	47	
114.	In 3 ph	ase locos, normal position of PERCOS	is		(A)
	A.	Horizontal	B.	Vertical	
	C.	Horizontal/Vertical	D.	None of the above	
115.	In 3 ph	ase MU locos (E-70) position of 136 C	OC i	n master loco is	
	and in	slave loco is			(A)
	A.	Open, Close	B.	Open, Open	
	C.	Close, Open	D.	Close, close	
116.	In CCB	2.0 dead loco during proportional bral	king	loco brake cylinder	
	pressur	re is in dead loco is Kg/cm ²			(D)
	A.	1.8	B.	2.0	
	C.	2.5	D.	3.8	
117.	In GTC	locos, Speed is not increasing more th	nan 1	kmph with ASC2.	
	Tacho	generator error (DDS Message), isolate	e		(A)
	A.	Isolate SR-2	B.	Isolate BUR-1	
	C.	Isolate SR-1	D.	Isolate Bur-2	

118.	Quick	trouble shooting for panto not rai	ising in 3 ph	ase locos is	(C)
	A.	Ensure PR pressure is above 5.5	Kg/cm2 B	Press 130.1 Contactor in	n SB-2
	C.	Follow A&B	Γ	D. Follow Only B	
119.	Norm	nal position of IG38 Key in CCB2.	0 locos is		(B)
	A.	Horizontal	В.	Vertical	
	C.	450	D.	1350	
120.	When	auxiliary converter-1 is isolated,	OCB1&2 sl	nared byconverter.	(D)
	A.	Fail the loco	B. OCB	-1 in Auxiliary Converter	No 2,
			OCB-	-2 in Auxiliary Converter	: No 3
	C.	Auxiliary Converter No.3	D. Auxi	liary Converter No.2	
121.	If SR	-1 pump not working, work the tra	in further		(C)
	A.	Keep 154 on 1	B.	50% sectional load	
	C.	A&B	D.	70% TE/BE	
122.	If Au	xiliary converer-2 is isolated, TMI	B 1 & 2 sha	red by	(A)
	A.	Auxiliary Converter No. 1	B.	TMB-1 in Auxiliary Co	nverter No.1
	C.	Auxiliary Converter No. 3	D.	TMB-2 in Auxiliary Co Fail the loco	nverter No.3
123.	If Au	xiliary converter No.3 is isolated,	MCP 1 & 2	shared by	(C)
	A.	Auxiliary Converter No.1	B.	MCP-1 in Auxiliary Co.	nverter No.1
	c.	Auxiliary Converter No. 2	D.	MCP-2 in Auxiliary Cor Fail the loco	nverter No.2
124.	If SR	-2 pump not working, work the tra	in further		(C)
	A.	Keep 154 on 2	B.	50% sectional load	
	C.	A&B	D.	70% TE/BE	
125.	In 3 p	phase MU locos 47 dead cock posi	tion in mast	er loco is	
	and in	slave loco is			(D)
	A.	Open, Close	B.	Open, Open	
	C.	Close, Open	D.	Close, close	
126.	In 3 p	phase CCB 2.0 loco before set up I	PTDC mode	МСВ	
	to be	kept OFF			(A)
	A.	127.7	B.	128.1	
	C.	129.1	D.	127.1/1	
127.	In 3	phase loco if speed is not increasing	ng more tha	n 15 Kmph	
	Swite	ch to be checked.			(B)
	A.	152	В.	160	
	C.	154	D.	237.1	

128.	Quick	trouble shooting for VCB not closing in	3 ph	ase locos is	(C)
	A.	Ensure Node No.550 and	B.	Press 136.4 contactor in SB	-1
		VCB cock in open position			
	C.	Both A&B	D.	Only follow B	
129.	VCU	reset push button purpose is			(C)
	A.	To reset MCBs in SB1&2	B.	To reset MCBs in HB 1&2	
	C.	To switch OFF & ON MCE	D.	None of the above.	
130.	Inchir	ng mode available in Locos			(A)
	A.	WAG9	B.	WAP7	
	C.	WAP5	D.	In all locos	
131.	Status	s code 90 indicates			(D)
	A.	No sub system isolated, no fault	B.	Subsystem batteries isolated	I
	C.	Atleast subsystem isolated, P1 fault	D.	At least one subsystem iso	lated, no fault
132.	If Cor	ridor lights are not glowing	І СВ	to be checked in SB-2.	(A)
	A.	310.4	B.	310.7	
	C.	310.1	D.	310.2	
133.	To ch	eck healthiness of MCB112,		lights to be switched ON	
	befor	e switching ON MCE.			(B)
	A.	Corridor	B.	Marker	
	C.	Flasher	D.	Head light	
134.	In IGI	BT locos cock(s) are close	ed/di	ummied on Pneumatic panel.	(C)
	A.	FB	B.	70	
	C.	SR1 & SR2	D.	47	
135.	From C	Cab-1 both side head lights are not working	ng, .	MCB to be checked	(A)
	A.	310.1/1	B.	338/1	
	C.	310.1&310.2	D.	338/1 & 338/2	
136.	From	Cab-2 both side head lights are not work	ing,	MCB to be checked	(C)
	A.	310.1&310.2	B.	338/1	
	C.	310.1/2	D.	338/1 & 338/2	

Conventional Locomotives:

1.	In W	AG-5, output is given to all T	Ms f	fields during RB.	(A)
	A	RSI-1	В	RSI-2	
	C	Both RSI-1 & RSI-2	D	None of the above	
2.		ation of line contactors L-1, L-2 & L-3 WAP4 locos is at		/AG-7 (above 27200)	(A)
	A III	HT-1 BA-1 panel	В	HT-3 BA-2 panel	(A)
	C	HT-3 BA-3 panel	D	HT-3 BA-2 panel	
_		•		•	
3.		tion of line contactors L-4, L-5 & L-6 WAP4 locos is at	in W	'AG-7 (above 27200)	(C)
	A	HT-1 BA-1 panel	В	HT-3 BA-2 panel	
	C	HT-3 BA-3 panel	D	HT-3 BA-4 panel	
4.	Locat	ion of R-1 COC in WAG-5 loco is at			(C)
	A	Cab-1 center locker	В	Near control reservoir	
	C	Above wheel no.4	D	Cab-1 left side locker	
5.	Locat	ion of R-1 COC in WAG-7 loco is			(B)
	A	Cab-1 center locker	B	Near control reservoir	
	C	Above wheel no.4	D	Cab-1 left side locker	
6.		ion of C2A relay valve in WAG-7 loco-4 crew friendly cab locos is at			(B)
	A	Behind BA box no.3	В	Pneumatic panel	
	C	Behind BA box no.1	D	Behind BA box no.4	
7.		ion of C2B relay valve in WAG-7 (272 friendly cab locos is at	200 c	onwards) & WAP4	(D)
	A	In between MR-1 & MR-2	В	In between MR-3 & MR-4	
	C	In between MR-2 & MR-3	D	Pneumatic panel	
8.		ion of EP-3 COC in WAG-7(27200 on	ward	ls) & WAP-4 locos	
		Naar DA 4 manal	D	Nam DA 2 manal	(A)
	A	Near BA-4 panel	В	Near BA-3 panel	
0	С	Near BA-2 panel	D	Near BA-1 panel	<i>(</i> A)
9.		ion of MVSL-1 in WAG-7 loco 27200			(A)
	A	HT-1 compartment	В	HT-2 compartment	
	С	HT-3 compartment	D	None of the above	
10.	Locat	ion of MVSL-2 in WAG-7 loco 27200			(B)
	A	HT-1 compartment	В	HT-2 compartment	
	C	HT-3 compartment	D	None of the above	

11.	In conventional locos,reservoir pressure is used for horns.						
	A	MR1	В	MR2			
	C	MR3	D	MR4			
12.	In modified locos, when additional BP angle cock is closed in leading side, cab BP gauge shows '0' reading.						
	A	Trailing	В	Leading			
	C	In both cabs	D	None of the above			
13.		nventional locos,reservoir peo BC pressure.	oressure	e is used for creation	(D)		
	A	MR1	В	MR2			
	C	MR3	D	MR4			
14.	In each	ch cab A9 feed valve is having OCs	.No. of	pipelines and No.	(B)		
	A	2 & 1	В	3 & 2			
	C	2 & 3	D	3 & 4			
15.	In conventional locos, A8 COC Position while working with cab-2 leading is						
	A	Partially open	В	partially closed			
	C	Open	D	Close			
16.	Total	number of loco brake cylinders in W	VAP-4	loco is	(D)		
	A	6	В	8			
	C	4	D	12			
17	Norm	nal pressure of SMGR is K	Kg /cm ²		(A)		
	A	2.5 - 3.5	В	3.0 - 2.0			
	C	3.5 - 4.5	D	5.0 - 3.0			
18.	Loca A	tion of A-8 COC in WAG-7 loco about In cab-1 below A-9	ove 272 B	200 is Pneumatic panel	(B)		
	C	In cab-2 below A-9	D	None of the above			
19		line contactors are not closed in WA is in open position.	G 5 loc	co, ensure	(A)		
	A	EP 2 COC	В	EP 1 COC			
	C	MR 4 COC	D	VEAD COC			
20.	Locat	tion of A-8 COC in WAP-4 crew frie	endly lo	ocos	(B)		
	A	In cab-1 below A-9	В	Pneumatic panel			
	C	In cab-2 below A-9	D	None of the above			

21.	Brake pipe pressure should be					
	A	5.0, 4.8	В	5.0, 4.9		
	C	5.0, 4,7	D	5.0, 5.0		
22.		mum FP pressure Should be Kg/cm2 in rear SLR of a 24 vel			(A)	
	A	6.0, 5.8	В	6.0, 5.9		
	C	6.0, 5.7	D	6.0, 5.6		
23.		AG 7 loco, if all line contactors are not s are in open position.	clos	ed, ensure	(D)	
	A	EP 2 & EP3	В	EP 1& EP3		
	C	MR 4 & EP3	D	EP 1 and EP 2		
24.	In co	nventional locos, CP Individual safety	valve	e setting is kg/cm ² .	(C)	
	A	8	В	11.5		
	C	11	D	9.5		
25.		n BP drops below 4.4 kg/cm ² (in BP ga functioning.	uge)	without A9	(C)	
	A	ACP Indication	В	AFL		
	C	Both A & B above	D	none of the above		
26.	In conventional locos, if ALP is driving from trailing cab and loco pilot is controlling from leading cab, do not exceed Kmph of speed.					
	A	40	В	15		
	C	30	D	No Speed Restriction		
27.	In co	nventional locos RGEB2 is connected of	on	Pipe line.	(B)	
	A	FP pipe	В	Brake Pipe		
	C	Control pipe	D	All the above		
28.	In conventional locos auto Drain Valve will drain out the moisture at Kg/cm² (when BLCP is closed).					
	A	8	В	9.5		
	C	10.5	D	11		
29.		tion of C-145 in WAG-7 (27200 onwars at	ds) d	& in WAP4 (with	(D)	
	A	HT-1 BA-1 panel	В	HT-3 BA-2 panel		
	C	HT-3 BA-3 panel	D	HT-3 BA-4 panel		
30.		owering or for raising the pantograph in is provided.	thre	ee stages	(B)	
	A	Panto servo motor	В	Throttle valve		
	C	Both A & B	D	None of the above		

31.	In conventional locos, if ALP is in leading cab and Loco pilot is controlling from trailing cab, do not exceed Kmph of speed.					
	A	40	В	15		
	C	30	D	No Speed Restriction		
32.		nventional locos during RB, if loco bra e 1.0 kg/cm ² relay will de-ener			(D)	
	A	Q 51	В	QVRF		
	C	QE	D	Q 50		
33.	Locat	tion of VEPT-1 in crew friendly locos	is		(D)	
	A	Loco roof	В	Cab-1 left side locker		
	C	Cab-1 center locker	D	Cab-1 back panel		
34.		elearance between brake block and whe ease position of loco brakes.	el ty	re should be mm	(A)	
	A	10	В	5		
	C	15	D	20		
35.	The reservoir pressure is used for BA2 and BA3 panels in WAG5 loco.					
	A	Control reservoir	В	MR1		
	C	MR2	D	MR4		
36.	In co	nventional locos duplex check valve is	set a	t kg/ cm ² .	(B)	
	A	5	В	4.9		
	C	6.5	D	8		
37.	In conventional locos reservoir pressure is used for FP pressure creation.					
	A	MR1	В	MR2		
	C	MR3	D	MR4		
38.		n BPSW is pressed, valve en P pressure.	nergi	zes for quick recreation	(A)	
	A	MV4	В	R6		
	C	VEF electrical	D	IP		
39.	The n	normal position of air intake COC is			(A)	
	A	Close	В	Open		
	C	Partially Open	D	Partially Close		
40.	In co	nventional locos, SS2 safety valve is se	et at	kg/cm ² .	(C)	
	A	10	В	11		
	\mathbf{C}	10.5	D	11.		

41.	Location of HQOP-1 in WAG-7 loco 27200 onwards is			(A)	
	A	HT-1 BA-1 panel	В	HT-3 BA-3 panel	
	C	HT-3 BA-2 panel	D	Switch panel	
42.		nventional locos proportional working kg/ cm ² .	press	sure with A9 is	(C)
	A	2	В	2.5	(C)
	C	1.8	D	3.5	
43.		ormal functioning of air dryer,	_		nd
		color COC to be kept closed.			(B)
	A		В	Green, Red	` /
	C	Red, Red	D	Green, Green	
44.		nventional locos, Air Dryer is connecte reservoirs.	ed be	tween and	(B)
	A	MR1, MR2	В	MR2, MR3	
	C	MR3, MR4	D	None of the above	
45.		nventional locos, for discharging back line, valves are provided	press	sure from CP delivery	(A)
	A	Un loader	В	Auto drain	
	C	Both A & B	D	None of the above	
46.		mum kg/ cm ² of pressure will an, when BP drops to '0'.	go to	brake cylinders of each	(D)
	A	2	В	2.5	
	C	1.8	D	3.8	
47.	A-8 (COC position is in MU leading loo	co an	d in MU trailing loco	(A)
	A	Open, Close	В	Open, Open	
	C	Close, Close	D	Close, Open	
48.	In BN	MBC system, each coach having	. no.	of brake cylinders.	(C)
	A	2	В	3	
	C	4	D	5	
49.		mum loco brake cylinder pressure with SA-9 is Kg/ cm ² .	A9	is Kg/cm ² and	(B)
	A	1.8, 2.5	В	1.8, 3.5	
	C	2.0, 2.5	D	1.8, 3.8	
50.	Loca	tion of HQOP-2 in WAG-7 loco 27200	onw	vards is	(C)
	A	HT-1 BA-1 panel	В	HT-2 compartment	
	C	HT-3 BA-2 panel	D	Switch panel	

51.		U locos, MU2B position in is	leading loco is	and in trailing	(C)
	A	Lead, Lead	В	Trail, Lead	
	C	Lead, Trail	D	Trail, Trail	
52.	In co	nventional locos SS-1 safe	ty valve setting	. Kg/cm ² .	(D)
	A	8.5	В	9	
53.		10.5 nventional locos, if wipers creating valve		8 working and FP pressure	(A)
	A	Duplex check valve	В	Double check valve	
	C	Both A&B	D	None of the above	
54.		nventional locos, if DJ trip bys BP pressure automatic	•	valve	(A)
	A	IP(M)	В	C3W	
	C	A9 feed	D	Auto drain	
55.	Locat	cion of A-8 COC in WAG	5 loco is		(A)
	A	In cab-1 below A-9	В	Pneumatic panel	
	C	In cab-2 below A-9	D	None of the above	
56.	Sensitivity of distributor valve is reduction of Kg/cm ² amount of BP pressure withinseconds.				
	A	0.6, 6	В	0.3, 6	
	C	0.6, 3	D	0.3, 60	
57.	In co	nventional dead loco, IP (N	M) COC must be B	in position. open	(A)
	C	Either close or open	D	None of the above	
58.		nventional locos,ontrol pipe line	pressure switch (related to AFL	-	(A)
	A	P1	В	P2	
	C	RGCP	D	RGAF	
59.	Leakages in formation 'BP' pipe is indicated through gauges in both cabs.			(D)	
	A	MR	В	Loco BC	
	C	FP	D	AFI	
60.		pass the air dryer	colour cut out cut out cock to		(B)
	A	Red, Green	В	Green, Red	
	C	Red, Red	D	Green, Green	

61.	1. In air brake locos, ALP emergency brake is connected to pipe line.				(A)	
	A	BP	В	MR	(11)	
	С	FP	D	ВС		
62.		nventional locos,pipeline in both cabs.	of A	9 is not having any	(C)	
	A	MR pipe	В	Control pipe		
	C	BP pipe	D	None of the above		
63.		n additional BP cut out cock is closed o pressure will not charge in to the			(A)	
	A	BP	В	FP		
	C	MR	D	All the above		
64.		tion of CTF-3 in WAG-7 loco 27200 of	nwar	rds & WAP4 (with	(D)	
	A	HT-1 BA-1 panel	В	HT-3 BA-2 panel		
	C	HT-3 BA-3 panel	D	HT-3 BA-4 panel		
65.		ng BP pressure leakage in formation, glows in signaling panel.	• • • • •		(C)	
	A	LSDJ	В	LSP		
	C	LSAF	D	LSB		
66.	In Air flow indicator, colour needle is called as reference needle and colour needle is called as indicating needle.					
	A	White, Red	В	Red, Green		
	C	Green, Red	D	Red, White		
67.	Normal position of additional BP cut out cocks on either side of the loco is					
	A	Open	В	Close		
	C	Either close or open	D	None of the above		
68.	In conventional locos,					
	A	P1	В	P2		
	C	RGCP	D	RGAF		
69.	The C	C145 contactor position is when MP	is in	traction side.	(A)	
	A	open	В	close		
	C	either close or open	D	neither close nor open		
70.		BOXN+BV load, if 6 DVs are defective is%.	ve, tł	ne effective brake	(A)	
	A	$(53 / 59) \times 100 = 90\%$	В	(59 / 53) X 100 = 111%		
	\mathbf{C}	Cannot calculate	D	None of the above		

71.	The C	C145 contactor position is when M	MP is in	braking side.	(A)
	A	close	В	open	
	C	neither close nor open	D	either close or open	
72.	Form	ula for effective brake power percen	tage is-		(A)
	A	(Effective No. of cylinders /Total no of cylinders)X100	В	(Total no of cylinders /Effective No. of cylinders)X100	
	C	(Effective No. of cylinders X 100)	D	(Total no of cylinders / 100))
73.		gh MCPA is working and RS pressu		_	(- -)
		dr			(D)
	A	EP	В	CP	
	C	CDC	D	RS, PT & CPA	
74.	in	rounding conventional loco, place Z position and turn on in clock wise direction.	•		(A)
	A	5° clock, 7°clock	В	5° clock, 6°clock	
	C	7° dock, 9° clock	D	11° clock, 1°clock	
75.		on MP is in traction side, the CTF1, Con are	TF2 &	CTF3 handles	(D)
	A	CTF1, CTF2 up & CTF3 down	В	CTF1, CTF2 down & CTF up	3
	C	CTF1, CTF2, CTF3 down	D	CTF1, CTF2 & CTF3 up	
76.		gle pipe air brake system, formation voir is charged with	_	/ coach auxiliary pressure.	(D)
	A	MR4	В	FP	
	C	BC	D	BP	
77.		U both locos pneumatic pressure is r pipe.	naintain	ed equally through	(D)
	A	BP	В	FP	, ,
	С	BC equalising	D	MR equalising	
78.		in pipe air brake system, coaches au ed with pres	•	reservoir is	(B)
	Α	MR4	В	FP	
	C	BC	D	BP	
79.		nventional locos, reservoir pre on of BP pressure.	ssure is	used for	(C)
	A	MR 1	В	MR 2	
	\mathbf{C}	MR 3	D	MR 4	

80.	In do	uble head trailing loco , A8 COC must	be ir	1position.	(B)
	A	Open	В	Close	
	C	Either (A) or (B)	D	None of the above	
81.	charg	moving conventional loco as dead, Miled with pressure Eq. pipe is not connected between loco BP	whe		(A)
	C	MR	D	None of the above	
	C	IVIK	D	None of the above	
82.		ngle loco both side BC equalizing pipe position.	es an	gle COC must be	(A)
	A	Close	В	Open	
	C	Either (A) or (B)	D	None of the above	
83.		g CP efficiency test, when BPSW is probelowkg/cm² (write the BP ga			(B)
	A	4	В	4.4	
	C	3.5	D	2.5	
84.		MP is in braking side, the CTF1, CTF on are			(B)
	A	CTF1, CTF2, CTF3 up	В	CTF1, CTF2 & CTF3 down	
	C	CTF1, CTF2 down & CTF3 up	D	CTF1, CTF2 up & CTF3 down	
85.		g BP continuity test,kg/ opped through A9 in the	cm² o	_	(D)
	A	2.5	В	3.5	
	C	2	D	1	
86.		g CP efficiency test, when BPSW is not should show between and	-		(A)
	A	2.5 & 3.5	В	1.5 & 2.5	
	C	3.0 & 3.5	D	Any one of the above	
87.		dified locos, when C145 contactor is c lamp glows near Q50 rela		1,	(C)
	A	LSB	В	LSGR	
	C	LSC-145	D	LSOL	
88.	When	L1 or L6 is not closed, then tract	ion f	ailure occurs.	(C)
	A	TLTE with GR progression	В	TLTE w/o GR progression	
	C	PLTE	D	1st notch auto regression with LSP	

89.	Auto	sanding is done by the energisation of .		Relay.	(C)
	A	Q44	В	Q49	
	C	Q48	D	Q50	
90.		never cattle run over takes place, if BP of diate duty of crew is to switch ON		•	(D)
	A	Head light	В	Cab light	
	C	Marker light	D	Flasher light	
91.		never cattle run over takes place, after con, the LP has to check		=	(B)
	A	OHE voltage	B	Battery voltage	
	C	Charger voltage	D	None	
92.	side I	BP angle cut-off cock is broken, the duressure is by closing	ty of	LP is to maintain	(C)
	A	MR-4 COC	В	Rear side addl. BP COC	
	C	Front side addl. BP angle COC	D	Both side addl. BP COCs	
93.	Relay	Q 46 is called as		relay.	(C)
	A	GR half notch protection relay	В	Auxiliaries protection relay	
	C	GR full notch protection relay	D	DJ protection relay	
94.	Relay	Q 118 is called as		relay.	(B)
	A	GR half notch protection relay	В	Auxiliaries protection rela	ay
	C	GR full notch protection relay	D	DJ protection relay	
95.		osing BLDJ, pressing BLRDJ, LSDJ re Tripping		-	(B)
	A	Operation A beginning	B	ICDJ	
	C	Operation A ending	D	Mechanical locking of DJ	
96.		e checking reasons for ICDJ, UBA mete dicatesfuse(s) are in good c			(C)
	A	CCPT & CCBA	В	CCBA	
	C	Addl. CCBA	D	CCPT & CCDJ	
97.		roid ICDJ, minimumure is required.	kg/c	m ² of MR/RS	(B)
	A	6.6	В	6.5	
	C	6	D	5.5	

98.	While checking the reasons for ICDJ, the panto raised condition indicates					
	A	CCDJ & CCPT	В	Addl CCBA & CCA	(C)	
	C	CCBA & CCPT	D	Addl CCBA & CCDJ		
99.		osing BLDJ, pressing BLRDJ, LSDJ last immediately is an indication for			(D)	
	A	Operation A ending	В	Operation A ending part II		
	C	Operation B Part I	D	Operation A beginning		
100.	Earth	fault in Q 118 relay coil causes	. fus	e to melt.	(C)	
	A	CCBA	В	CCDJ		
	C	CCPT	D	Addl. CCBA		
101.	Earth	fault in Q 45 relay coil causes		fuse to melt.	(B)	
	A	CCBA	В	CCDJ		
	C	CCPT	D	Addl. CCBA		
102.	Earth	fault in Q 44 relay coil causes	fuse	to melt.	(A)	
	A	CCPT	В	CCDJ		
	C	CCBA	D	Addl. CCBA		
103.	Earth fault in MTDJ coil causes fuse to melt.					
	A	CCBA	В	Addl. CCBA		
	C	CCPT	D	CCDJ		
104.	Earth fault in C 118 contactor coil causes fuse to melt.					
	A	CCDJ	В	Addl. CCBA		
	C	CCPT	D	CCBA		
105.		anent welding of the tips of C 106 cont tripping failure.	actor	causes	(C)	
	A	No tension	В	6th notch tripping		
	C	ICDJ	D	Operation 'O'		
106.	Melti	ng of CCDJ fuse causes trip	oing	failure.	(D)	
	A	Operation 'A' ending	В	Operation 'O'		
	C	Operation 'A' beginning	D	ICDJ		
107.	For c	losing of DJ push button switch BP1DJ	can l	be used. BPP	(C)	
	C	BP2DJ	D	BPR		
108.	_	oper contact of pus ICDJ trouble.	ısh b	utton switch I/L	(A)	
	A	BP1DJ	В	BPP		

	C	BP2DJ	D	BPR		
109.		nergency DJ can be tripped by ALF		ing	(A)	
		push button switch in cal		DDD	(A)	
	A	BP1DJ	В -	BPP		
	С	BP2DJ	D	BPR		
110.	Defe	ctive QVRH relay causes	tripping		(D)	
	A	Operation I	В	Operation B Part I		
	C	Operation II	D	Operation 'O'		
111.	Defe	ctive QPH relay causes	tripping	failure.	(B)	
	A	Operation I	В	Operation B Part 1		
	C	Operation II	D	Operation 'O'		
112.		HBA glowing on run, but DJ is not or		ndicates ent is defective.	(A)	
	A	QV61 or CHBA	В	ARNO or CHBA		
	C	QCVAR or ARNO	D	ARNO or QV61		
113.	Any	blower contactor not closed, causes	s tripį	oing failure.	(C)	
	A	Operation I	В	Operation B Part I		
	C	Operation II	D	Operation 'O'		
114.	Defe	ctive MVSI-1 motor causes tri	pping fail	ure.	(A)	
	A	Operation I	В	Operation B Part I		
	C	Operation II	D	Operation 'O'		
115.		gish operation of GR causes trippin relay.	ng of DJ tl	nrough	(B)	
	A	Q 118	В	Q 44		
	C	Q 50	D	Q 45		
116.	Struck up of GR in full notches during quick regression causes tripping of DJ through relay energisation.					
	A	Q 46	В	Q 118		
	C	Q 44	D	Q 48		
117.	Energ	gisation of any safety relay, causes	DJ to trip	after seconds.	(B)	
	A	0.6	В	0		
	C	0.5	D	5.6		
118.	Defe	ctive Q 30 relay leads to tripp	ing failure	2.	(C)	
	A	Operation A ending	В	Operation B Part I		
	C	Operation B Part II	D	Operation 'O'		
119.	The c	defective ARNO leads totr	ipping fail	lure.	(A)	
	A	Operation A ending	В	Operation B Part I	•	

	C	Operation B Part II	D	Operation 'O'	
120.		vercome the Operation B part II trippir	ng fai	lure	<i>(</i> ~ <i>)</i>
	•••••	relay is to be wedged.			(C)
	A	Q 44	В	Q 118	
	C	Q 45	D	Q 46	
121.		vedging relay in DJ Co C is necessary.	ontrol	circuit, permission	(A)
	A	Q 44	В	Q 118	
	C	Q 45	D	Q 46	
122.		taking permission from TLC, before very test is to be con-	_	<u> </u>	(C)
	A	Loco brake test	В	LT test	
	\mathbf{C}	GR efficiency test	D	Traction test	
123.	-	ation - I tripping failure causes due to ctive relays.	•••••	or	(D)
	A	QVMT 1 or QVMT 2	В	QVSL 1 or QVSL 2	
	C	QPH or QVRH	D	QVSI 1 or QVSI 2	
124.	When Q 45 relay is to be wedged, ensuretrouble should not be existing in the loco.				
	A	Operation A ending	В	Operation B Part I	
	C	No tension	D	Operation A Ending part II	
125.	Operation - II tripping is due to non-closingcontactors or their I/Ls.				
	A	C 101 or C 102 or C 103	В	C 106 or C 107 or C 108	
	\mathbf{C}	C 105 or C 106 or C 107	D	C 111 or C 121 or C 118	
126.		CB locos, if DJ N/O I/L parallel to C 1 h is defectivetripping for			(D)
	A	Operation A Ending	В	Operation B Part I	
	C	No tension	D	Operation A Ending part	П
127.		CB locos, the C 118 N/O I/L on MTDJtripping failure w			(A)
	A	ICDJ	В	Operation B Part I	
	C	No tension	D	Operation A. Ending part II	
128.	The c	lefective Q 30 relay causestrip	ping	failure.	(B)
	A	Operation A ending	В	Operation B Part II	
	C	No tension	D	Operation A Ending part II	
129.	Relay	Q 45 is called as			(C)
	A	DJ protection relay	В	Auxiliaries protection relay	,

	C	DJ resetting relay	D	Notch by notch progression relay	
130.		passing neutral section, If ICDJ is fuses.	experien	ced, check	(C)
		CCPT & CCBA	В	Addl. CCBA & CCPT	(-)
	C	ADDI. CCBA & CCBA	D	CCPT & CCDJ	
131.		ng manual operation of Q 44 relay, ore than seconds.	it should	not be pressed	(B)
	A	5.6	В	1	
	C	0.5	D	0.6	
132.	MTD	J coil is called as		coil.	(A)
	A	DJ closing, holding & tripping coil	В	DJ tripping coil	
	C	DJ closing coil	D	DJ holding coil	
133.		se Q 45 relay is wedged, DJ will cle Switch closes.	ose direc	tly by the moment	(B)
	A	BLRDJ	В	BLDJ	
	C	BP2DJ	D	BP1DJ	
134.	circui	witching on HBA,it will energise provided Addl. CCl good condition.		•	(C)
	A	Q 45	В	Q 44	
	C	Q 118	D	None of the above	
135.	Defe	ctive MPH motor leads to	tripping	g failure.	(B)
	A	Operation A ending	В	Operation B Part I	
	C	No tension	D	Operation B Part II	
136.	Defe	ctive QCVAR leads to	trippii	ng failure.	(A)
	A	Operation A Ending	В	Operation B Part I	
	C	No tension	D	Operation B Part II	
137.	Relay	Q 118 is having second	s of time	lag.	(A)
	A	5	В	6	
	C	3	D	60	
138.	Defe	ctive QPDJ leads totripp	ing failur	e.	(C)
	A	Operation A ending	В	Operation B Part I	
	C	ICDJ	D	Operation B Part II	
139.		ay Q 44 is wedged, the precautions o be observed along		relay 44 relay precautions.	(B)
	A	Q 45	В	Q 118	

C 107

C 145

D

B 2

C 108

C 118

149. Time delay of QSVM relay isseconds.

 \mathbf{C}

Α 5 (B)

(B)

C 0.6 D 60

150.		& safety relays are rea	moved in static	converter locos.	(D)	
	A	QLM & QLA	В	QOP1 & 2		
	C	QRSI 1 & 2	D	QOA & QLA		
151.	of A A	croprocessor loco, if experi FL/ACP circuit, change HAD HPAR	the position of		(C)	
152.		is tripped through static cor Lamp glo	•		(C)	
	A	LSRSI	В	Internal fault lamp		
	C	LSSIT	D	External fault lamp		
153.		void QD action in microprocessed up to 10th	cessor loco, notch.	switch to	(A)	
	A	BPQD	В	BPSW		
	C	ZQWC	D	PSA		
154.	in ope	croprocessor loco, before claing any loco trouble ensure en position.	to keep	switch	(A)	
	A		В	HPAR		
	C	BLDJ	D	HOBA		
155.		tion of CHBA ammeter in S	_		(A)	
	A	On SIV panel	В	On switch panel		
	С	On relay panel	D	On CHBA		
156.	Ratin	g of CCINV is	-		(A)	
		6	В	16		
	С	10	D	2		
157.	To close all line contactors, position of EP1 & EP2 COCs in WAG7 are					
	A	EP1 & EP2 close	В	EP1 & EP2 open		
	C	EP1 open, EP2 close	D	EP1 close, EP2 open		
158.		VT is provided to isolate			(G)	
		& &	_	1 1	(C)	
	A	Static converter	В	Micro processor		
	C	Heaters, cab fans, NR & W/T charger	D	None of these		
159.		n static converter is not work checked.	king	fuse(s)	(D)	
	A	CCINV	В	CCDJ		

\mathbf{A}	Addl. CCBA, CCBA, CCPT	В	Addl. CCBA, CCBA, CCIN
	& CCDJ		& CCA
C	CCINV & CCA	D	None of these
	tic converter locos compressors v seconds after extinguishi		-
A	2	В	5
C	60	D	45
	V locos, if LSSIT glows continuo tripping failure	-	experiences
A	ICDJ	В	No Tension
C	Operation 'A' Ending	D	None of these
	tic converter locos during RB,		motor stops tarts working.
A	MVRH, MVRF	В	MVRF, MVRH
C	MPH, MVRH	D	None of the above
When	SIV is working	relay e	nergises.
A	QSIT	В	QCON
C	QCVAR	D	None of these
In mi	croprocessor locofuses ar	e removed	1.
A	CCDJ, CCLS, CCA & CCLSA	В	CCA & CCINV
C	CCINV & CCAD	D	CCCPU & CCBA
	& time delay relays are remov	ed in stati	c converter locos.
A	QTD 105 & 106	В	QTD 100 & 101
C	QTD 107 & 108	D	None of these
	correct preparation for traction as vised by	well as bra relay.	aking is
A	Q-52	В	Q-51
C	Q-50	D	Q-49
	iemens make SIV loco panels continuously in normal working		lamps
Α	LSSIT & CHBA ON	В	CHBA ON & SIV ON

	A	QSIT	В	QCON	
	C	QSVM	D	None of these	
170.	If ear	th fault occurs in out side of SIV,	lamp	glows on SIV panel.	(B)
	A	OHE out of range	B	External fault	
	C	Internal fault	D	None of the above	
171.		tic converter loco DJ control circuit, or relay interlock provided in place of Q			(A)
	A	QSIT	В	QCON	
	C	QSVM	D	None of these	
172.		n TLTE with LSB is experienced, it indenergized.	licate	es relay	(A)
	A	Q-50	В	Q-51	
	C	Q-52	D	Q-48	
173.		AG-5 loco the centre pivot carries% o			(D)
	A	40, 60	В	60, 40	
	C	50, 50	D	60, 20	
174.		AG-7 loco the side bearers nearer to the% of vertical load & the r pivot carries % of vertical load	side	tre pivot carries bearers away to the	(B)
	A	40, 60	B	60, 40	
	C	50, 50	D	100, 0	
175.		numbers of brake cylinders are G-7 loco.	e pro	vided in WAG-5 or	(A)
	A	8	В	24	
176.	C	6	D	12	
170.		&			(A)
	A	Center pivot-1-no & side bearers-2nos	В	load bearers 4-nos	
	С	side bearers 4-nos	D	center pivot-1No, side bearers-4 nos	
177.	•••••	type bogie provided	in W	AG-7 locos.	(B)
	A	CO - CO tri mount bogie	В	CO-CO tetra mount high adhesion bogie	
	C	CO - CO flexi coil bogie	D	BO-BO tri mount bogie	
178.	•••••	type bogie provided	in W	AP-4 locos.	(C)
	A	CO - CO tri mount bogie	В	CO - CO tetra mount high adhesion bogie	
	C	CO-CO flexi coil bogie	D	BO-BO tri mount bogie	

179.	When hand brake is applied in WAG-5 or in WAG-7 locos,				(A)
	A		B	No-2	(A)
	7.	side	D	110 2	
	C	No-1 both sides, no-2 one side	D	No-4 both sides, no-2 one side	
180.	When	hand brake is applied in WAP-4 locos	S	wheel gets apply.	(B)
	A	No-2 both sides, no-4 one side	В	No-2	
	C	No-1 both sides, no-2 one side	D	No-4	
181.	_	C relay's action is up to notch, wied (18 shunting contactors loco).	hen 2	ZQWC is	(C)
	A	20	В	15	
	C	10	D	1	
182.	releas	n dead loco is attached on formation, if sing proportionally,			(A)
	A	C3W Valve	В	C2A	
	C	MU2B	D	Both cab A 9	
183.		ch OFF blowers when the train is expec		-	(C)
	A	10	В	30	
	C	15	D	20	
184.		in is expected to stop for more than anto with the consultation of SM/SCOF		minutes lower	(A)
	A	30	В	15	
	C	45	D	60	
185.	Loca	tion of hand brake in crew friendly loco	s is		(C)
	A	Cab-1 left side locker	В	Cab-1 right side locker	
	C	Cab-1 on floor	D	Cab-2 on floor	
186.	Durin	ng RB, working of MVRF is indicated t	hrou	igh Lamp.	(B)
	A	LSAFL	В	LSDBR	
	C	LSOL	D	LSGRPT	
187.		atic inverter fitted loco	laı	mp is provided to	(C)
	A	QSIT	В	LSGRPT	

C LSSIT D LSAF

188.	\mathcal{E}			
	& lamps A LSCHBA & LSGRPT		v in leading loco. LSGRPT & LSOL	(C)
	C LSOL & LSCHBA		None of the above	
189.	While working with MU, If tell-tale fuse lamps wil			(B)
	A LSRSI & LSOL		LSRSI & LSGRPT	
	C LSOL & LSGRPT	D N	None of the above	
190.	While working with MU, If tell-tale fuse lamps w			(A)
	A LSRSI & LSOL	ВІ	LSRSI & LSGRPT	
	C LSOL & LSGRPT	D N	None of the above	
191.	While working with MU, If Q 50 is de er lamps with MU.	_	_	(C)
	A LSB & LSOL	ВІ	LSOL & LSGRPT	
	C LSB & LSGRPT	D N	None of the above	
192.	While working MU, If Q 50 is de energis			(A)
	A LSB & LSOL	ВІ	LSOL & LSGRPT	
	C LSB & LSGRPT	D N	None of the above	
193.	If signaling lamps are not working defect	may be w	vith	(D)
	A CCBA & Addl. CCBA	В	CCPT & CCLS	
	C CCLC & CCBA	D A	Addl. CCBA & CCLS	
194.	Q 20 actions are			(A)
	A Auto regression of GR, glowing of LSOV & sounding of SON		Glowing of LSOV & ounding of SON	
	C Sounding of SON	D N	None of the above	
195.	While working with MUloco, lamp glows in			(A)
	A LSOL & LSGRPT	ВІ	LSOL & LSOV	
	C LSGRPT & LSAFL	D I	LSGRPT & LSOL	
196.	While working with MU, If DJ is tripped lamps v	-		(D)
	A LSDJ & LSGRPT	•	LSOL & LSOV	` /
	C LSOL & LSGRPT	D I	LSDJ, LSCHBA, LSB,	

LSGR & LSGRPT

197.	While working with MU, If DJ is tripped in trailing loco				
	A	LSDJ & LSGRPT	В	LSOL & LSOL	` /
	C	LSOL & LSGRPT	D	LSDJ, LSCHBA, LSB LSOL	&
198.		n ZQWC is pressed, QWC re notch(es).	lay will energis	se only when GR	(C)
	A	' 0 '	В	'1'	
	C	'0' or '1'	D	on & above 20th	
199.		e attaching loco on to format	-	eo first at	(C)
	A	10	В	15	
	C	20	D	25	
200.		of mounted RB provided WA isAmps.	P-4 locos, revi	sed setting of QF	(C)
	A	700	В	800	
	C	850	D	900	
201.		resetting BPEMS switch, op ion toposition.	erate ZPT fron	1	(A)
	A	0, 1	В	2, 0	
	C	1, 0	D	1, 2	
202.	Earth	fault in line contactors coils	causes,	. fuse to melt.	(A)
	A	CCPT	В	CCA	
	C	CCDJ	D	CCLSA	
203.	In conventional locos, if VCD is not acknowledged, after 60secs, will happen for next 8secs.				
	A C	Alarm will sound Auto regression and BP Drops	B D	Yellow flashing light we All the above	vill glow
204.		nventional locos, when VCD			
		Auto magnession and DD			(A)
	A	Auto regression and BP drops	В	DJ trips	
	C	Panto lowers	D	None of the above	
205.		nventional locos, to acknowle n/paddle switch should not be	_	-	(D)
	A	30	В	32	
	C	45	D	60	

206.	When	BPEMS is pressed, actions wi	ll tak	te place.	(D)
	A	DJ trips	В	Panto lowers	
	C	BP drops	D	All the above	
207.		nventional locos, VCD acknowledgmen once in every 60 seconds		• • •	(D)
	A	A-9 or SA-9	В	Sander or horns	
	C	Progression or regression or Ack.	D	Any one of the above	
208.		nventional locos, if VCD is not acknow will happen for next 8secs.	ledg	ed, after 68secs,	(C)
	A C	Alarm will sound Alarm will sound and yellow light will glow	B D	Yellow flashing light will a Auto regression and BP drops	glow
209.		nventional locos, before resetting VCD perated.	,	to	(B)
	A C	HBA to be kept in '0' and '1' ZPT to be kept in '0' and '1'	B D	-	
210.	In co	nventional locos, for resetting VCD,		to be pressed.	(C)
	A	BPP/BPR	В	horns	
	C	Ack. or Reset button	D	sanders	
211.		nventional locos, in case of any malfun switch in 'OFF' position.	ctior	ning, to isolate VCD,	(A)
	A	VCD Bypass	В	Reset	
	C	Acknowledgement	D	None of the above	
212.	BP a	never cattle run over takes place, if BP engle cut-off cock is broken, the duty of ressure is by closing	LP i	-	(C)
	A			RAL COC	(0)
	C	Front side Addl. BP angle cock	D	A-9 COC	
213.	Conti	rolling fuse for SMGR control circuit is	· · · · · ·		(A)
	A	CCPT	В	CCA	
	C	CCBA	D	CCDJ	
214.		ore taking notches, if Q51 is in energise eriences			(B)
	A	TLTE with LSB	В	TLTE without LSB	
	C	Auto regression with LSP	D	None of the above	
215.	GR tı	ravelling time (0 to 32 notches) for progravelling time (0 to 32 notches)	gress		(A)
	A	11 to 13	В	10 to 12	

C 32 D 15

216.	While operating GR manually equipment to be observed.						
	A	PHGR	В	RPGR			
	C	CGR arc-chutes	D	RGR			
217.	For o	perating GR manually take out ZSMG	R ha	ndle from position.	(C)		
	A	6 O' clock	В	7 O' clock			
	C	3 O' clock	D	5 O'clock			
218.	While	e operating GR manually GR shall be r	otate	ed within seconds.	(A)		
	A	0.5	В	0.6			
	C	5	D	None of above			
219.	for b	on MP is moved from traction to braking oraking is ensured by glowing and extiraling lamp.	_		(B)		
	A	LSP	В	LSB			
	C	LSGR	D	LSRSI			
220.		ng RB if DJ trips, valve de ruction of BP pressure automatically.	e-ene	ergises and causes	(A)		
	A	IP(E)	В	IP(M)			
	C	VEF(E)	D	VEF(M)			
221.	When	never DJ is tripped on notches GR com	es to	zero by relay.	(D)		
	A	Q52	В	Q51			
	C	Q46	D	Q50			
222.	While	While operating GR manually MP should be placed inPosition.					
	A	O	В	+			
	C	-	D	N			
223.	Auxi	liary controlling relay is			(D)		
	A	Q118	В	Q49			
	C	Q119	D	Q100			
224.	In EP	C118 provided locos Q100 is replaced	l wit	h Relay.	(C)		
	A	Q119	В	Q120			
	C	QTD100	D	Q121			
225.	When	a BLVMT is defective blowers can be s	starte	ed by	(C)		
	A	Wedging contactors	В	Changing switch position			
	C	Taking a notch	D	Ask relief loco			
226	When	C107 is not closed, try by keeping	sv	vitch on position.	(B)		

	A	HVRH, 2	В	HVRH, 3
	C	HVRH, 1	D	HVRH, 0
227.	After	wedging any 3 phase EM contactor en	sure.	without fail. (C)
	A	Proper closing of 3 tips	В	Motor is working
	C	Both A & B	D	None of above
228.		fuse will melt, when earth fault occu	ırs in	J1 / J2 coils. (A)
	A	CCPT	В	CCBA
	C	CCA	D	CCLS
229.	Durin	ng RB, all traction motor fields are com	necte	ed in (B)
	A	Parallel	В	Series
	C	Series-parallel	D	None of the above
230.		e using RBed to avoid loco wheel skidding.	br	akes should not (B)
	A	Formation(A-9)	В	SA-9
	C	All above	D	None of the above
231.		number of fuses are project e concerned block and work further.	cted	in same RSI block,
	A	2 or more	В	1
	C	All above	D	None of the above
232.	QD a	ctions are		(D)
	A	Auto regression of few notches	В	Auto sanding
	C	LSP glows	D	All the above
233.		ion motor meter connections in Cab-1 2 are		and in (A)
	A	U1-TM1, U2-TM2, A3-TM3, A4-TM4, U5-TM5, U6-TM6,	В	A1-TM1, U2-TM2, U3-TM3, A4-TM4, U5-TM5, U6-TM6,
	C	A1-TM3, A2-TM4, U1-TM1, A4-TM4, U5-TM5, U6-TM6,	D	None of the above
234.	The c	controlling fuse for reversers control cir	cuit	is (C)
	A	CCA	В	CCDJ
	C	CCPT	D	CCLS
235.		n rear cab BL is not locked properly, cTraction failure		experiences (D)
	A	TLTE with LSB	В	TLTE with out LSB
	C	Auto regression with LSP	D	1st notch auto regression with out LSP
236.	On ru	in when GR is on notches and CCPT is	mel	ted,
	happ	ens in the loco.		(D)
	A	Panto lowers	В	GR comes to zero

237.	When CCA is melted crew experiences tripping failure.				
	A	Operation O	В	Operation-II	
	C	Operation-I	D	Operation-B part-I	
238.		n Q100 is not energized crew experienching failure.	es		(C)
	A	Operation-O	В	Operation-I	
	C	Operation-II	D	Operation-B part-I	
239.		n C106 is not closed, try by keeping position.	• • • • •	switch on	(D)
	A	HVMT-2, 2	В	HVMT-2, 0	
	C	HVMT-2, 1	D	HVMT-2, 3	
240.	Purpo	ose of Q119 is			(D)
	A	To enrgise VEULs	В	Late starting of MCP-3	
	C	To energise VEAD	D	Both A & B	
241.		ng RBvalve energizes autoortional working.	mati	ically to avoid	(B)
	A	Auto drain	В	VEF(E)	
	C	RGCP	D	VEAD	
242.	When A	n notches are not progressing & regress EEC operation B	_	by MP, try with GR manual operation	(A)
	C	Ask for relief loco	D	None of the above	
243.	When	Pacco switch is in pressed condition,		-	(B)
	A	TLTE with LSB	В	TLTE without LSB	
	C	Auto regression with LSP	D	None of the above	
244.	If Q5	2 is permanently energised, crew exper			(B)
	A	TLTE with LSB	В	TLTE without LSB	
	C	Auto regression with LSP	D	None of the above	
245.	hour	nventional locos, if CHBA is isolated, as during day time and hours minimum utilization of battery supply.			(A)
	A	6, 4	В	4, 6	
	C	5, 4	D	6, 3	
246.		e changing Bi-polar switch on DC-DC switch to be switched off.	conv	verter,	(B)

	A	BLPRF	В	ZRT / ZPR	
	C	BLPRR	D	BLPRD	
247.		minimum battery voltage required to eroco is Volts.	ergi	se conventional	(B)
	A	50	В	90	
	C	110	D	100	
248.	If CC check	CBA is melting even HOBA is in OFF 1 ked.	osit	ion to be	(D)
	A	PANTO	В	DJ	
	C	CHBA	D	LTBA	
249.		losing HBA and ZUBA, if UBA reads Fuse to be checked.	zero	volts	(B)
	A	CCBA	В	Addl. CCBA	
	C	CCA	D	CCPT	
250.	When	n BPSW is pressedvalv	e en	ergizes.	(B)
	A	PR1	В	MV4	
	C	PR2	D	QWC	
251.		relay causes Auto Regression du	ıring	AFL working.	(B)
	A	PR1	В	PR2	
	C	RGEB2	D	Q20	
252.		ng A9 application Relates the AFL actions.	lay e	nergises and	(D)
	A	Q-121	В	Q-120	
	C	QFL	D	PR-1	
253.	Leng	th of the conventional type of Neutral s	sectio	on ismeters.	(C)
	A	42	В	45	
	C	41	D	4.8	
254.	The p	ourpose of ATD in OHE is	•••••		(A)
	A	Maintains tension in OHE	В	Uniform wear & tear of panto	
	C	A & B	D	None of the above	
255.		aintain uniform wear & tear of panto p gement is provided on OHE.	an		(B)
	A	ATD	В	Staggering	
	C	Anti creep	D	A & B	
256.		gency telephone sockets are provided a metres along the track		listance of	(A)
	A	1000 /900	В	1500	

C 800 D 750

257.	In mo	odified locos Notch Repeater is gets su	pply	trom	(A)
	A	CHBA	В	DC-DC Converter	
	C	TFVT	D	ARNO	
258.		controlling fuse for reversers control ci			(C)
	A	CCA	В	CCDJ	
	C	CCPT	D	CCLS	
259.		n head light is not glowing work the tra kmph speed during night time.	iin w	ith maximum	(C)
	A	50	В	30	
	C	40	D	60	
260.	Purpo	ose of additional CCBA is			(A)
	A	Protects BA +ve cable	В	Protects BA –ve cable	
	C	Protects CHBA	D	Protects UBA	
261.	The C	OHE supply of two traction substations	is se	eparated by	(A)
	A	Neutral section	В	SP	
	C	SSP	D	TSS	
262.	The 1	ength of PTFE neutral section is	•••••	. meters.	(C)
	A	2.8	В	4.2	
	C	4.8	D	5.2	
263.	The z	zig-zag arrangement of contact wire is	calle	d as	(D)
	A	Auto tension	В	Regulating	
	C	Un-regulating	D	Staggering	
264.		in, if OHE contact wire is found hanging	ng, tl	ne immediate duty	
	of the	e crew is			(B)
	A	Inform TLC	В	Keep ZPT on "0" and ap Emergency brakes or press BPEMS.	ply
	C	Inform TPC	D	None of the above	
265.		Ds are provided at both ends of contactions as type to the contact type type to the contact type to the contact type to the contact type type to the contact type type to the contact type type type type type type type typ		•	(C)
	A	Un-regulated	В	Semi- regulated	
	C	Regulated	D	Un-known	
266.	The p	ourpose of the CHBA is &			(D)
	A	Charging Batteries	В	Supply to Arno	ŕ
	C	Supply to all control circuits after closing DJ	D	both A & C	

267.	If ATDs are not provided at both ends of contact and catenary wires, it is known as			and catenary (A)
	A	Unregulated OHE	В	Semi regulated OHE
	C	Regulated OHE	D	Un known
268.	Trac	tion motor meter connections in Cab-	1 are	and in Cab-2 are (A)
	A		В	A1-TM1, U2-TM2, U3-TM3,
	C	A4-TM4, U5-TM5, U6-TM6 , A1-TM3, A2-TM4, U1-TM1, A4-TM4,U5-TM5, U6-TM6,	D	A4-TM4, U5-TM5, U6-TM6, None of the above
269.	Total	no. of roof bars provided in WAG 5 l	loco a	re (B)
	A	6	В	6+2
	C	4	D	4+2
270.	Total	No. of roof bars provided in WAP 4	loco a	re (D)
	A	6	В	6+2
	C	4	D	4+2
271.		nventional locos, to close DJ hes to be operated.		BL (C)
	A	BLDJ	В	BLRDJ
	C	BLDJ, BLRDJ	D	BLSN
272.	Loca	tion of MU2B in crew friendly locos i	s	(C)
	A	Motor chest no.1	В	Motor chest no.2
	C	Pneumatic panel	D	Switch panel
273.		n panto is raised and DJ is open position equipment against surge voltage.	on,	protects
	A	ETTFP-1	В	ET- 2
	C	ET- 1	D	ET TFP- 2
274.		closing DJ, protects main to voltage.	ransfo	ormer against (B)
	A	ETTFP-1	В	ET-2
	C	ET-1	D	ETTFP-2
275.		relay is called as TM output over c	urrent	t relay during RB. (A)
	A	QF-1 or QF-2	В	QE
	C	QRSI-1 or QRSI-2	D	None of the above

276.	Arno starting phase is given through contactor &resistance.					
		C118 & R118	В	C118 & RGR	(A)	
	C	C145 & R118	D	C108 & RPGR		
277.		ng phase of ARNO is suppress			(B)	
		Q45	В	QCVAR	(-)	
	С	Q30	D	Q44		
278.	Poly	glass material projecting from failure.			(C)	
	A	Short circuit	В	Over current		
	C	Banding failure	D	None of the above		
279.	Earth	fault in MPH motor causes tr	ipping of DJ t	hroughrelay.	(C)	
	A	QLA	В	QOP-1		
	\mathbf{C}	QOA	D	QRSI-1		
280.	If M	PH motor is isolated, starting	5 minutes	Amps current and		
	continuouslyAmps current to be observed for TM.					
	A	920, 500	В	500, 500		
	C	750, 500	D	1000, 500		
281.		VSL-2 is not working, work the No restriction for TM current ratings	ne train by iso B isolate l	_	(D)	
	C	Work 50% load	D	Above all		
282.	If MV	/RH motor is isolated, starting	5 minutes	Amps current		
	and continuouslyAmps current to be observed for TM.					
	A	920, 500	В	500, 500		
	C	1000, 750	D	1000, 500		
283.	In co	nventional locos,moto	rs are called o	lirect motors.	(D)	
	A	MPH, MVSI-1	В	MVSI-2, MVSL-1		
	C	MVSL-2	D	All the above		
284.	MVN	MT 1 & MVMT 2 are t	ype of auxilia	ary motors.	(D)	
	A	direct auxiliary	В	starts along with ARNO		
	C	Both A & B	D	remote controlled		
285.	To isolate the TM-5 in WAG-7 loco, HMCS-2 has to be placed in position and bit to be packed on –ve side of TM.					
	A	3, J1-10th	В	3, J1-8th		
	\mathbf{C}	3, J2-10th	D	3, J2-8 th		

280.		tion and bit to be pack B	, .	(D)	
	C 4, J2-6th	D	4, J1-6th		
287.	placed in pos A 2, J2-6th	n WAP-4 loco (With RB), ition and bit to be pa	acked on –ve side of TM. 2, J2-8th	(B)	
	C 1, J2-6th	D	,		
288.	Location of IP mechan A Cab-1 left side left	nical valve with COC in cocker B	rew friendly locos is Motor chest no.1	(C)	
	C Pneumatic par	nel D	Motor chest no.2		
289.	In WAG-5 loco during fieldrela	g RB application, if there any will act.	is earth fault in TM-6	(A)	
	A QOP-1	В	QOP-2		
	C QRSI-1	D	QE		
290.	After moving MP to	P' position,conta	actor closes.	(B)	
	A C-107	В	C-145		
	C C-118	D	C-111		
291.	relay will act when banding failure takes place in TM-1.				
	A QRSI	В	QLM		
	C QOP-1	D	QOP-2		
292.	If banding failure take Kmph of r	es place clear the section were stricted speed.	vith not exceeding	(D)	
	A 40	В	25		
	C 10	D	15		
293.	ATFEX comes into se	ervice after closing	contactor.	(C)	
	A C-108	В	C-118		
	C CTF-3	D	C-145		
294.	number of shun	ting contactors provided in	n WAG-5 orWAG-7 locos.	(D)	
	A 24	В	16		
	C 22	D	18		
295.	relay is oprotection relay.	called traction power cirui	t-1 earth fault	(B)	
	A QOP-2	В	QOP-1		
	C QOA	D	QRSI-1		
296.	RPS resistances are co	ooled by	motor.	(C)	
	A MVSI-1	В	MVSL-1		
	C MVRH	D	MVMT-1		

297.	RB should not be used if relay is wedged in energized condition.			(D)	
	A	Q44	В	Q118	
	C	Q51	D	Q50	
298.	Durir	ng RB, MVRF motor gets feed from	• • • • •	TM.	(A)
	A	TM-1	В	TM-2	
	C	TM-4	D	TM-6	
299.	To isolate the TM-1 in WAG-5 loco, HMCS-1 has to be placed in position and bit to be packed on –ve side of TM.			<u> </u>	(B)
	A	2, J1-6th	В	2, J1-8th	
	C	2, J2-8th	D	3, J1-8th	
300.	QD-1	is connected between and	tract	ion motors.	(A)
	A	TM2 & TM3	В	TM1 & TM3	
	C	TM1 & TM2	D	None of the above	
301.	QD-2	is connected between and	tı	raction motors.	(C)
	A	TM4 & TM6	В	TM5 & TM6	
	C	TM4 & TM5	D	None of the above	