SOUTH CENTRAL RAILWAY

Headquarters Office,
Personnel Branch,
Secunderabad.

No. SCR/P-HQ/EM/633/Inst/Vol.III

Dt. .05.2024.

All concerned

Sub: Filling up of the post of Instructor/Running (Ex-cadre) in Level-7 of VII CPC at ETTC/BZA/ Electrical Department.

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A Question Bank for filling up of the post of Instructor/Running (Ex-cadre) in Level-7, G.P 4600/- in ETTC/BZA in Electrical Department is enclosed.

The Questions are only indicative in nature.

Actual question paper may contain questions not only from Question Bank but also covering from the Syllabus.

The Candidates may note this point.

Encl: As above.

N.S 21/5/24

(N. Srinivasulu)
SPO/RRC
For Pr.Chief Personnel Officer

सत्यमेव जयते

भारत सरकार / GOVERNMENT OF INDIA
रेल मंत्रालय / MINISTRY OF RAILWAYS
दक्षिण मध्य रेल्वे / SOUTH CENTRAL RAILWAY
विजयवाड़ा मंडल् / VIJAYAWADA DIVISION

प्रचार्यों का कार्यालय / Office of the Principal
विद्युत कर्षण प्रशिक्षण केन्द्र / Electric Traction Training Centre
विजयवाड़ा / Vijayawada

संख्या / No. ETTC/2 दिनांक / Date: 20.05.2024

PCPO/SCR

(For kind information to S.N.Haq, SPO/ M &EL)

Sub: Question bank for selection to the post of Instructor/Running (Ex-cadre) in Level-7 of VII CPC at ETTC/BZA.
Ref: PCPO/SCR's Lr. No. SCR/P-HQ/EL/633/Instructor/Vol-I, dated 27.10.2023

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Vide above reference letter and notification dated 27.10.2023 for selection to the post of Instructor/Running (Ex-cadre) in Level-7 of VII CPC at ETTC/BZA, the Question bank is attached as Annexure-A.

Encl: Annexure-A

ए.सीताराम
A. Seetharam
प्राचार्य/ ईटीटीसी/ विजयवाड़ा
Principal /ETTC /BZA

Copy to CEE/OP/SCR for kind information please
Copy to Sr.DEE/OP/BZA for kind information please.

Question Bank for Instructor (Running) in Level-7 of VII CPC Pay Matrix Electrical Department under Principal/ ETTC/BZA

PCPO/SCR notification Lr. No. SCR/P-HQ/EL/633/Instructor/Vol-I, dated 27.10.2023

QUESTION BANK SUMMARY

Sl. No.	Subject	No. Of Questions
01	Knowledge on Power, Control and Mechanical Circuits of Conventional, 3 phase locos, WAG-12 locos, EMU/MEMU (conv& 3 ph) and T-18. 3-Phase and conventional locomotive = 192 nos. WAG-12 locomotive = 50 nos. EMU / MEMU = 83 nos. Train Set-18 / VandeBharat = 50 nos.	375
02	Basics of Electricity	100
03	Power Supply Systems (OHE)	114
04	Rolling Stock Organisation and Works (duties of Running supervisor)	30
05	G & SR	129
06	Rajbasha / Official Language	87
TOTAL		**835**

Note:

- This question bank is for guidance only.
- The question bank is prepared as per the syllabus and for general guidance of applicants only. These are some model questions, but not exhaustive

QUESTION BANK

3-Phase and Conventional Locomotive control circuits, power circuits, mechanical / pneumatic circuits, and troubleshooting:

1	In 3Ø phase dead locomotive, AUX RESERVIOR will be charged with _____ pressure.				(B)
	(A)	FP	(B)	BP	
	(C)	MR	(D)	RS	
2	While working 3Ø loco as banker, put on _____ switch and Close 70 cut out coc				(B)
	(A)	ZTEL	(B)	ZBAN	
	(C)	BLHO	(D)	None of the above	
3	For resetting vigilance penalty brakes in WAG-9 or WAP-7 locomotive, wait for _____ seconds.				(D)
	(A)	120	(B)	100	
	(C)	240	(D)	160	
4	To change the 160 switch position in 3-phase locos, ensure speed is _____ kmph.				(C)
	(A)	2	(B)	3	
	(C)	0	(D)	1	
5	While working with WAP-7 or WAG-9 with light load, if Harmonic Filter is isolated, work with normal speed after isolating _____				(D)
	(A)	Auxiliary converter-1	(B)	Traction converter-1 &; 2	
	(C)	AuxiliaryconverterNo.3	(D)	TractionconverterNo.1	
6	In 3Ø loco, Battery charger is getting supply from _____				(C)
	(A)	Auxiliary converter No. 1	(B)	Auxiliary converter No. 2	
	(C)	AuxiliaryconverterNo.3	(D)	TractionconverterNo.1	
7	If 112 MCB is off _____ will happen in 3 phase loco.				(C)
	(A)	NO trouble	(B)	Loco works normal	
	(C)	Loco becomes dead during CPs ON.	(D)	Main power off	
8	In 3 Ø loco, if battery voltage drops below 86 Volts _____ will open.				(A)
	(A)	Traction Bogies contactors	(B)	VCB	
	(C)	CP contactors	(D)	127.7/1 contactor	
9	In 3Ø loco, VCD is required to be acknowledged from _____ KMPH of speed.				(C)
	(A)	5	(B)	1	
	(C)	1.5	(D)	15	
10	During loco brake testing of WAG-9 or WAP-7, loco should not move up to _____ KN.				(B)
	(A)	100	(B)	150	
	(C)	300	(D)	125	
11	In 3 Ø loco, continuous pressing of PSA for more than 60 seconds is called as _____ mode.				(B)
	(A)	Cooling mode	(B)	Dead man's	
	(C)	Self Hold	(D)	Inching	

12	In 3 Ø loco, Constant speed control (CSC) can be activated above _____ kmph of speed.				(A)
	(A)	5	(B)	1	
	(C)	1.5	(D)	15	
13	In 3 Ø loco (E70), if vigilance penalty brakes are applied BP pressure drops to _____ kg/cm^2 (Gauge reading)				(B)
	(A)	2	(B)	2.5 to 3.0	
	(C)	2.5 to 3.5	(D)	0	
14	When ZTEL is switched on Tractive Effort (TE) is limited to _____ KN in WAG-9 locomotive.				(B)
	(A)	100	(B)	300	
	(C)	150	(D)	458	
15	If speed of the train is increased for more than _____ % of loco MPS, emergency brake will apply in 3Ø loco.				(C)
	(A)	0.5	(B)	5	
	(C)	10	(D)	50	
16	In 3 Ø loco, if speed is more than _____ % of loco MPS, only audio-visual indications will appear.				(B)
	(A)	0.5	(B)	5	
	(C)	10	(D)	50	
17	Over current relay in 3Ø locomotive is _____				(C)
	(A)	OCR-86	(B)	MVR-86	
	(C)	OCR-78	(D)	None of the above	
18	In _____ gradient area and terminal goods yards Constant Speed control (CSC) of 3Ø loco should not be used.				(C)
	(A)	Up	(B)	Down	
	(C)	Undulating	(D)	Steep down	
19	In WAG-7 or WAP-4 locos _____ output is given to all TMs fields during RB.				(B)
	(A)	RSI-1	(B)	RSI-2	
	(C)	BothRSI-1&; RSI-2	(D)	None of the above	
20	While working 3Ø loco as banker, close _____ cocs in Pneumatic panel.				(A)
	(A)	70 & 136	(B)	70 & 74	
	(C)	74 & 136	(D)	All the above	
21	In 3Ø loco, to reset the Fire Detection Unit (FDU) press the _____.				(B)
	(A)	BPFA	(B)	Reset button on FDU	
	(C)	ESPB	(D)	BPFL	
22	In 3 Ø loco, if catenary voltage out of limit appears on screen, change the _____ fuse after lowering panto and try.				(D)
	(A)	FL	(B)	CCBA	
	(C)	415V	(D)	PT	
23	To reset VCD in WAP-5 (E70) loco, wait for _____ seconds.				(D)
	(A)	32	(B)	160	
	(C)	60	(D)	120	

24	In 3Ø loco, cab changing is to be done within _____ minutes, otherwise CE will switch OFF.				(A)
	(A)	10	(B)	5	
	(C)	15	(D)	20	
25	In 3 Ø loco, normal position of 152 switch is _____.				(A)
	(A)	'0'	(B)	'1'	
	(C)	NORM	(D)	None of the above	
26	In 3Ø locos, in cooling mode, for panto and DJ _____ motor creates pressure.				(B)
	(A)	MCPs	(B)	MCPA	
	(C)	Both A and B	(D)	None of the above	
27	In WAG-9 loco provided with parking brakes, _____ no. of direct brake cylinders and _____ no. of parking brake cylinders are available.				(A)
	(A)	12 & 4	(B)	12 & 8	
	(C)	4 & 12	(D)	12 & 6	
28	3Ø loco is fitted with _____ type of traction motors.				(A)
	(A)	3Ø AC Asynchronous Squirrel Cage induction motor	(B)	DC Series motor	
	(C)	1Ø AC induction motor	(D)	3Ø AC synchronous Squirrel Cage induction motor	
29	In 3Ø loco, location of BPFL switch is _____.				(D)
	(A)	In both cabs on FLCU	(B)	In both cabs Panel A	
	(C)	In both cabs Panel B	(D)	In both cabs Panel C	
30	To move 3Ø loco as live or dead, ensure _____ & _____ brakes are released.				(C)
	(A)	Parking, proportional	(B)	Direct , proportional	
	(C)	Parking, Direct	(D)	None of the above	
31	In 3 Ø loco, if throttle (ATDC) is failed, keep _____ switch in _____ position.				(B)
	(A)	154, 1	(B)	152, 1	
	(C)	152, 0	(D)	160, 1	
32	In 3Ø loco, when parking brakes are applied, parking brake gauge shows _____				(A)
	(A)	0Kg/cm2	(B)	4 Kg/cm2	
	(C)	3.5Kg/cm2	(D)	6 Kg/cm2	
33	In 3 Ø loco, to isolate panto no.1, keep panto selector switch in _____ position.				(C)
	(A)	Auto	(B)	I	
	(C)	II	(D)	I & II	
34	WAG-9 or WAP-7 locos are having _____ number of dampers (in both primary and secondary suspension)				(B)
	(A)	16	(B)	20	
	(C)	40	(D)	10	
35	In 3Ø loco, glowing of BPFA and flickering of LSFI indicates _____ fault.				(B)
	(A)	Isolation of subsystem	(B)	Priority-1	
	(C)	Priority-2	(D)	Both Priority-1 & 2 faults at a time	
36	In 3Ø loco, on run glowing of BPFA alone indicates _____ fault.				(C)
	(A)	Priority-1	(B)	One of the subsystem is isolated	
	(C)	Priority-2	(D)	Priority-1 fault or Priority-2 fault	

37	In 3Ø loco, to bring back an isolated subsystem in to service (system Isolated subsystem), procedure is _____				(A)
	(A)	Switch OFF and switch ON CE	(B)	Reset concerned MCB	
	(C)	Close concerned COC	(D)	Operate concerned Rotating switch	
38	In 3Ø loco, Status code '00' means _____.				(D)
	(A)	Major fault in loco	(B)	No sub system isolated	
	(C)	Minor fault in loco	(D)	No fault and No subsystem isolated	
39	In 3Ø loco, Constant Speed Control (CSC) will be de-activated automatically if throttle is disturbed above _____ % in TE side or BE side.				(C)
	(A)	33	(B)	66	
	(C)	3	(D)	No such limit, on moving Throttle	
40	WAG-9 loco is having _____ type of bogie.				(C)
	(A)	Bo-Bo flexi coil	(B)	Co-Co Tri mount	
	(C)	Co-Co flexi coil	(D)	Co-Co tetra mount high adhesion	
41	In 3Ø loco, continuous glowing of LSFI indicates _____ .				(B)
	(A)	Priority-1fault	(B)	At least one subsystem is isolated	
	(C)	Priority-2fault	(D)	Priority-1fault or Priority-2 fault	
42	In 3 Ø loco, 3Ø scavenging blower collects dust from air filters of _____ & _____				(D)
	(A)	Oilcoolingblowers-1 & 2	(B)	Bogieblowers-1 & 2	
	(C)	Machineroomblowers-1 & 2	(D)	Oil cooling blower & Bogie blower	
43	In proportional working, maximum brake cylinder pressure inWAG-9 loco is _____ kg/cm 2				(B)
	(A)	1.8	(B)	2.5	
	(C)	3.5	(D)	5	
44	3Ø loco is having _____ no. of 3phase auxiliary motors in loco under frame.				(B)
	(A)	2	(B)	4	
	(C)	12	(D)	8	
45	In 3Ø loco, Oil cooling blower cools _____ & _____ Oils/water coolant.				(C)
	(A)	SR-1 & SR-2	(B)	TFP-1, TFP-2	
	(C)	TFP & SR	(D)	Traction motors	
46	In 3 Ø loco, if battery voltage drops to _____ volts for 30 seconds, P-2 message appears.				(A)
	(A)	92	(B)	82	
	(C)	90	(D)	86	
47	In 3 Ø loco, for application of parking brakes speed should be below _____.				(A)
	(A)	5 KMPH	(B)	15 KMPH	
	(C)	1.5 KMPH	(D)	Zero KMPH	
48	In WAG-5 locomotive, _____ output is given to all TMs fields during RB.				(A)
	(A)	RSI-1	(B)	RSI-2	
	(C)	BothRSI-1&; RSI-2	(D)	None of the above	

49	Location of line contactors L-1, L-2 & L-3 in WAG-7 (above 27200) & in WAP-4 locos are at _____.				(A)
	(A)	HT-1 BA-1panel	(B)	HT-3 BA-2 panel	
	(C)	HT-3 BA-3 panel	(D)	HT-3 BA-4 panel	
50	Location of line contactors L-4, L-5 & L-6 in WAG-7 (above 27200) & in WAP-4 locos is at _____.				(C)
	(A)	HT-1 BA-1 panel	(B)	HT-3 BA-2 panel	
	(C)	HT-3 BA-3 panel	(D)	HT-3 BA-4 panel	
51	Location of R-1 COC in WAG-5 loco is at _____ .				(C)
	(A)	Cab-1 centre locker	(B)	Near control reservoir	
	(C)	Above wheel no.4	(D)	Cab-1 left side locker	
52	Location of R-1 COC in WAG-7 loco is _____.				(B)
	(A)	Cab-1 centre locker	(B)	Near control reservoir	
	(C)	Above wheel no.4	(D)	Cab-1 left side locker	
53	Location of C2A relay valve in WAG-5, WAM4 & WAG7 (up to 27199) is at _____ (pneumatic panel not provided locos).				(A)
	(A)	Behind BA box no.3	(B)	Behind BA box no.2	
	(C)	Behind BA box no.1	(D)	Behind BA box no.4	
54	Location of C2A relay valve in WAG-7 loco 27200 onwards & WAP-4 crew friendly cab locos is at _____.				(B)
	(A)	Behind BA box no.3	(B)	Pneumatic panel	
	(C)	Behind BA box no.1	(D)	Behind BA box no.4	
55	In conventional locos _____ reservoir pressure is used for horns.				(D)
	(A)	MR1	(B)	MR2	
	(C)	MR3	(D)	MR4	
56	In modified WAP-4 locos, when additional BP cut out cock is closed in leading side _____ cab BP gauge shows‘0’ reading.				(A)
	(A)	Trailing	(B)	Leading	
	(C)	In both cabs	(D)	None of the above	
57	In conventional locos, _____ reservoir pressure is used for Creation of loco BC pressure.				(D)
	(A)	MR1	(B)	MR2	
	(C)	MR3	(D)	MR4	
58	In conventional locos, CP Individual safety valve setting is _____ kg/cm^2.				(C)
	(A)	8	(B)	11.5	
	(C)	11	(D)	9.5	
59	When BP drops below 4.4 (in BP gauge) without A9 _____ starts functioning.				(C)
	(A)	ACP Indication	(B)	AFL	
	(C)	Both A & B	(D)	None of the above	
60	In conventional locos, RGEB2 is connected on _____ pipe line.				(B)
	(A)	FP pipe	(B)	Brake Pipe	
	(C)	Control pipe	(D)	All the above	
61	In conventional locos, Auto Drain Valve will drain out the moisture at _____ Kg/cm^2 (when BLCP is closed).				(B)
	(A)	8	(B)	9.5	
	(C)	10.5	(D)	11	

62	Location of C-145 in WAG-7(27200 onwards) & in WAP4 (with RB) is at _____				(C)
	(A)	HT-1 BA-1 panel	(B)	HT-3 BA-2 panel	
	(C)	HT-3 BA-3 panel	(D)	None of the above	
63	In Conventional locos during RB, if loco brake cylinder pressure is above 1.0 kg/cm^2 _____ relay will de-energise to bring GR to '0'.				(D)
	(A)	Q 51	(B)	QVRF	
	(C)	QE	(D)	Q 50	
64	The clearance between brake block and wheel tyre should be _____ mm in release position of loco brakes.				(A)
	(A)	10	(B)	5	
	(C)	15	(D)	20	
65	_____ reservoir pressure is used for BA2 and BA3 panels in WAG-5 loco.				(A)
	(A)	control reservoir	(B)	MR1	
	(C)	MR2	(D)	MR4	
66	In conventional locos, duplex check valve is set at _____ kg/ cm^2.				(B)
	(A)	5	(B)	4.9	
	(C)	6.5	(D)	8	
67	In conventional loco, AR pressure gauge is connected after_____ reservoir.				(B)
	(A)	MR1	(B)	MR2	
	(C)	MR3	(D)	MR4	
68	In conventional locos, when BPSW is pressed, _____ valve energizes for quick recreation of BP pressure.				(A)
	(A)	MV4	(B)	R6	
	(C)	VEF electrical	(D)	IP	
68	In conventional locos, on run, the condition of MV4 valve is _____ .				(A)
	(A)	De-energise	(B)	Energise	
	(C)	Open	(D)	Pick up	
68	In Conventional locos, SS2 safety valve is set at _____ kg/cm^2.				(C)
	(A)	10	(B)	11	
	(C)	10.5	(D)	11.5	
69	In Conventional locos, reason for less Proportional pressure compared to Direct brake is _____ .				(C)
	(A)	Loco weight	(B)	To avoid High temperature	
	(C)	For even braking in Loco and formation.	(D)	None of the above	
70	In conventional locos, Air Dryer is connected between _____ & _____ reservoirs.				(B)
	(A)	MR1, MR2	(B)	MR2,MR3	
	(C)	MR3, MR4	(D)	None of the above	
71	In conventional locos, for discharging back pressure from CP Delivery pipe line _____ valves are provided.				(A)
	(A)	Un loader	(B)	Auto drain	
	(C)	Throttle Valve	(D)	None of the above	

72	Maximum _____ kg/cm^2 of pressure will go to brake cylinders of each wagon, when BP drops to '0'.				(D)
	(A)	2	(B)	2.5	
	(C)	1.8	(D)	3.8	
73	In BMBC system, each coach having _____ no. of brake cylinders.				(C)
	(A)	2	(B)	3	
	(C)	4	(D)	5	
74	In conventional locos, SS-1 safety valve setting _____ Kg/cm^2.				(D)
	(A)	9.5	(B)	6.5	
	(C)	10.5	(D)	8	
75	In conventional locos, if wipers and sanders are not working and FP Pressure is not creating _____ valve to be tapped.				(A)
	(A)	Duplex check valve	(B)	Double check valve	
	(C)	Both A& B	(D)	None of the above	
76	Sensitivity of distributor valve is reduction of _____ Kg/cm^2 amount of BP pressure within _____ seconds.				(A)
	(A)	0.6 , 6	(B)	0.3 , 6	
	(C)	0.6 , 60	(D)	0.3 , 60	
77	In conventional locos _____ pressure switch is provided on A9 control pipe line (related to AFL).				(A)
	(A)	P1	(B)	P2	
	(C)	RGCP	(D)	RGAF	
78	In Conventional locos, _____ pipe line of A9 is not having any COC in both cabs.				(C)
	(A)	MR pipe	(B)	Control pipe	
	(C)	BP pipe	(D)	None of the above	
79	Location of CTF-3 in WAG-7 loco 27200 onwards & WAP4 (with RB) is _____				(C)
	(A)	HT-1 BA-1 panel	(B)	HT-3 BA-2 panel	
	(C)	HT-3 BA-3 panel	(D)	None of the above	
80	In Conventional locos, _____ pressure switch is provided on BP pipe line (related to AFL).				(B)
	(A)	P1	(B)	P2	
	(C)	RGCP	(D)	RGAF	
81	When ZPT operated to 7^0 clock position _____ pressure will exhaust.				(A)
	(A)	Panto servomotor pressure	(B)	CR pressure	
	(C)	BP pressure	(D)	FP pressure	
82	When Q50 relay is packed in energized position during J1and J2 positions are opposite to each other and MP operated to traction + side notches will _____				(D)
	(A)	Auto regression	(B)	Not progress	
	(C)	Quick regression	(D)	progress	
83	In WAG-5 MU, if MR Equalizing pipe only disconnects between locos _____ will happen.				(B)
	(A)	No changes	(B)	SA9 brakes will not apply in rear loco	
	(C)	Proportional brake will not apply	(D)	FP pressure will not create.	

84	While moving Conventional loco as dead, MR4 reservoir is charged with _____ pressure when DV is in-service (MR Eq. pipe is not connected between locos).				(A)
	(A)	BP	(B)	FP	
	(C)	MR	(D)	None of the above	
85	During CP efficiency test, when BPSW is pressed, BP should not drop below _____ kg/cm^2 (write the BP gauge reading).				(B)
	(A)	4	(B)	4.4	
	(C)	3.5	(D)	2.5	
86	During CP efficiency test, when BPSW is not pressed, BP gauge needle should show between _____ and _____ kg/cm2 (write the BP gauge reading).				(A)
	(A)	2.5 & 3.5	(B)	1.5 & 2.5	
	(C)	3.0 & 3.5	(D)	None of the above	
87	In modified locos, when C145 contactor is closed, _____ lamp glows near Q50 relay.				(C)
	(A)	LSB	(B)	LSGR	
	(C)	LSC-145	(D)	LSOL	
88	In conventional locos, when L1 or L6 is not closed, then _____ traction failure occurs.				(C)
	(A)	TLTE with GR progression	(B)	TLTE w/o GR progression	
	(C)	PLTE	(D)	1st notch auto regression with LSP	
89	While checking reasons for ICDJ, UBA meter shows more than 90V indicates _____ fuse(s) are in good condition.				(C)
	(A)	CCPT&CCBA	(B)	CCBA	
	(C)	ADDl. CCBA	(D)	CCPT&CCDJ	
90	In conventional locos, earth fault in MTDJ coil causes _____ fuse to melt.				(D)
	(A)	CCBA	(B)	Addl. CCBA	
	(C)	CCPT	(D)	CCDJ	
91	In conventional locos, earth fault in EFDJ coil causes _____ fuse to melt.				(C)
	(A)	CCBA	(B)	Addl.CCBA	
	(C)	CCDJ	(D)	CCPT	
92	In conventional locos, earth fault in C118 contactor coil causes _____ fuse to melt.				(A)
	(A)	CCDJ	(B)	Addl.CCBA	
	(C)	CCPT	(D)	CCBA	
93	In conventional locos, permanent welding of the tips of C106 contactor causes _____ is tripping failure.				(C)
	(A)	No tension	(B)	6th notch tripping	
	(C)	ICDJ	(D)	Operation ‘O’	
94	In conventional locos, melting of CCDJ fuse causes _____ tripping failure.				(D)
	(A)	Operation ‘A’ ending	(B)	Operation ‘O’	
	(C)	Operation ‘A’ beginning	(D)	ICDJ	
95	In WAG7 MU locos if CCDJ melts in leading loco _____ loco VCB(s) will open.				(C)
	(A)	Leading only	(B)	Trailing only	
	(C)	Both Locos	(D)	None of the above	

96	In conventional locos, defective QVRH relay causes _____ tripping failure.				(D)
	(A)	Operation I	(B)	Operation B Part I	
	(C)	Operation II	(D)	Operation 'O'	
97	In conventional locos, defective QPH relay causes _____ tripping failure.				(B)
	(A)	Operation 1	(B)	Operation BPart1	
	(C)	Operation II	(D)	Operation 'O'	
98	In conventional locos, modified CCLS fuse capacity is _____ Amps.				(C)
	(A)	6	(B)	16	
	(C)	10	(D)	35	
99	In conventional locos, purpose of MUCCBA is _____ .				(B)
	(A)	To charge same loco Batteries	(B)	In MU to charge rear loco Batteries when de-energised	
	(C)	To protect + cable of rear loco	(D)	None of the above	
100	In conventional locos, LSCHBA glowing on run, but DJ is not tripped indicates _____ or _____ equipment is defective.				(A)
	(A)	QV61 or CHBA	(B)	ARNO or CHBA	
	(C)	QCVAR or ARNO	(D)	ARNO or QV61	
101	In conventional locos, any blower contactor not closed, causes _____ tripping.				(C)
	(A)	Operation I	(B)	Operation B Part I	
	(C)	Operation II	(D)	Operation 'O'	
102	In conventional locos, if HPH switch is in "0" position (even though MPH/QPH defective), _____ tripping failure will be experienced.				(A)
	(A)	No tripping failure.	(B)	Operation B Part I	
	(C)	Operation II	(D)	Operation 'O'	
103	In conventional locos during LT test after VCB is in closed position _____ branches are in energized position (GR is on '0' position).				(B)
	(A)	Q45	(B)	MTDJ & Q118	
	(C)	Q44	(D)	EFDJ	
104	When BLDJ closed and BLRDJ pressed, LSDJ extinguishes and re-glows immediately indicates _____ tripping failure.				(C)
	(A)	Operation A ending	(B)	ICDJ	
	(C)	Operation A beginning	(D)	No tension	
105	In SIV locos, to work MCPs _____ & _____ relays should be energized.				(A)
	(A)	QCON & QTD101	(B)	QTD101	
	(C)	QCON	(D)	Q100	
106	In SIV locos, _____ switch is to be kept on '0', in the event of External Earth Fault and unable to rectify and to clear the block section.				(A)
	(A)	HSIV	(B)	HVSI	
	(C)	HBA	(D)	HCHBA	
107	In conventional locos, after using RB in SIV locos, experiencing 6th notch tripping, ensure whether _____ contactor is closed.				(B)
	(A)	C 108	(B)	C 107	
	(C)	C 118	(D)	C145	

108	In conventional microprocessor locos, if experienced TLTE due to malfunctioning of AFL/ACP circuit, change the position of _____ Switch.				(C)
	(A)	HAD	(B)	HOBA	
	(C)	HPAR	(D)	HBA	
109	In conventional microprocessor locos, before checking any loco equipment or attending any loco trouble ensures to keep _____ switch in open position.				(C)
	(A)	HBA	(B)	HPAR	
	(C)	BLDJ	(D)	HOBA	
110	In conventional locos, when static converter is not working _____ fuse(s) to be checked.				(D)
	(A)	CCINV	(B)	CCDJ	
	(C)	CCA	(D)	CCINV & CCA	
111	In conventional SIV locos, if LSSIT glows continuously, crew experiences _____ tripping failure.				(A)
	(A)	ICDJ	(B)	NO tension	
	(C)	Operation 'A' Ending	(D)	None of these	
112	In conventional SIV locos during RB, motor stops working and _____ motor starts working.				(A)
	(A)	MVRH, MVRF	(B)	MVRF,MVRH	
	(C)	MPH, MVRH	(D)	None of the above	
113	In WAG-5 loco, the centre pivot carries _____ % of load & each side bearer carries _____ % of load.				(D)
	(A)	40,60	(B)	60,40	
	(C)	50,50	(D)	60,20	
114	In WAG-7 loco the side bearers nearer to the centre pivot carries _____ % of vertical load & the side bearers away to the centre pivot carries _____ % of vertical load.				(B)
	(A)	40,60	(B)	60,40	
	(C)	50,50	(D)	100,0	
115	_____ type bogie provided in WAG-7 locos.				(B)
	(A)	CO-CO tri mount bogie	(B)	C-CO tetra mount high adhesion	
	(C)	Co-CO flexi coil bogie	(D)	Bo-Bo tri mount bogie	
116	QWC relay's action is up to _____ notch, when ZQWC is pressed (18 shunting contactors loco).				(C)
	(A)	20	(B)	15	
	(C)	10	(D)	1	
117	While working with MU, if CHBA is failed in trailing loco___&_____ lamps will glow in leading loco.				(C)
	(A)	LSCHBA &LSGRPT	(B)	LSGRPT & LSOL	
	(C)	LSOL & LSCHBA	(D)	None of the above	
118	While working with MU If tell-tale fuse is projected in leading loco _____ & _____ lamps will glow in leading loco.				(B)
	(A)	LSRSI & LSOL	(B)	LSRSI & LSGRPT	
	(C)	LSOL & LSGRPT	(D)	None of the above	

119	While working MU, if Q50 is de-energised in trailing loco _____ & _____ lamps will glow in leading loco.				(A)
	(A)	LSB &LSOL	(B)	LSOL & LSGRPT	
	(C)	LSB & LSGRPT	(D)	None of the above	
120	In roof mounted RB provided WAP-4 locos, revised setting of QF Relay is _____ amps.				(C)
	(A)	700	(B)	800	
	(C)	850	(D)	900	
121	If signalling lamps are not working defect may be with _____ fuses				(B)
	(A)	CCBA	(B)	Add CCBA or CCLS	
	(C)	CCDJ	(D)	CCPT	
122	Earth fault in line contactors coils causes _____ fuse to melt.				(A)
	(A)	CCPT	(B)	CCA	
	(C)	CCDJ	(D)	CCLSA	
123	In conventional locos, before resetting VCD _____ to be operated.				(B)
	(A)	MPJ to be moved to 'N' and then 'F'	(B)	MP to be kept on '0	
	(C)	ZPT to be kept in '0' and '1'	(D)	None of the above	
124	Before taking notches, if Q51 is in energized condition crew experiences _____ traction failure.				(B)
	(A)	TLTE with LSB	(B)	TLTE without LSB	
	(C)	Auto regression with LSP	(D)	None of the above	
125	During RB, if DJ trips, _____ valve de-energises and causes destruction of BP pressure automatically.				(A)
	(A)	IP(E)	(B)	IP(M)	
	(C)	VEF(E)	(D)	VEF(M)	
126	In EPC118 provided locos Q100 is replaced with _____ relay.				(C)
	(A)	Q119	(B)	Q120	
	(C)	QTD 100	(D)	Q121	
127	When rear cab BL is not locked properly, crew experiences _____ traction failure.				(D)
	(A)	TLTE with LSB	(B)	TLTE without LSB	
	(C)	Auto regression with LSP	(D)	1st notch auto regression without LSP	
128	On run, when GR is on notches and CCPT melted _____ happens in the loco.				(D)
	(A)	Panto lowers	(B)	GR comes to zero	
	(C)	VCB trips	(D)	Both A & C	
129	If CCA is melted, crew experiences _____ tripping failure.				(B)
	(A)	Operation-O	(B)	Operation-II	
	(C)	Operation-I	(D)	Operation-B part-I	
130	When Q100 is not energized, crew experiences _____ tripping failure.				(C)
	(A)	Operation-O	(B)	Operation-I	
	(C)	Operation-II	(D)	Operation-B part-I	
131	In MU, before starting, when rear loco Pacco switch is in pressed condition in leading loco LP experiences _____ traction failure.				(D)
	(A)	TLTE with LSB	(B)	TLTE without LSB	
	(C)	Auto regression with LSP	(D)	None of the above	

132	If Q52 is permanently energised, crew experiences._____ traction failure.				(B)
	(A)	TLTE with LSB	(B)	TLTE without LSB	
	(C)	Auto regression with LSP	(D)	None of the above	
133	During A9 application _____ relay energizes and nullifies the AFL actions.				(D)
	(A)	Q121	(B)	Q 120	
	(C)	QFL	(D)	PR-1	
134	When panto is raised and DJ is open position, _____ protects roof equipment against surge voltage.				(C)
	(A)	ETTFP-1	(B)	ET-2	
	(C)	ET-1	(D)	ETTFP-2	
135	After closing DJ, _____ protects main transformer against surge voltage.				(B)
	(A)	ETTFP-1	(B)	ET-2	
	(C)	ET-1	(D)	ETTFP-2	
136	_____ relay is called as TM output over current relay during RB.				(A)
	(A)	QF- 1 or QF -2	(B)	QE	
	(C)	QRSI 1 or QRSI -2	(D)	None of the above	
137	To isolate theTM-5 in WAG-7 loco, HMCS-2 has to be placed in position and _____ bit to be packed on–ve side of TM.				(C)
	(A)	3, J1-10th	(B)	3, J1-8th	
	(C)	3,J2-10th	(D)	3,J2-8th	
138	In WAG-5 loco during RB application, if there is earth fault inTM-6 field _____ relay will act.				(A)
	(A)	QOP -1	(B)	QOP-2	
	(C)	QRSI-1	(D)	QE	
139	During RB, DC MVRF motor gets feed from _____ TM				(A)
	(A)	TM-1	(B)	TM-2	
	(C)	TM -4	(D)	TM-6	
140	While clearing 3Ø loco (provided with Knorr brake) as dead, mode switch position in both cabs is _____				(D)
	(A)	HLPR	(B)	LEAD	
	(C)	TEST	(D)	TRAIL	
141	In 3Ø loco, Constant Speed Control (CSC) will be de-activated automatically if BP Pressure drops more than _____ Kg/cm^2.				(C)
	(A)	1	(B)	1.5	
	(C)	0.25	(D)	0.6	
142	Maximum _____ no. of conventional locos can be made as MU.				(C)
	(A)	2	(B)	3	
	(C)	4	(D)	4	
143	In 3Ø MU, driving is not possible from _____ cabs.				(B)
	(A)	Uncoupled end	(B)	Coupled end	
	(C)	Leading	(D)	None of the above	
144	In conventional MU locos if rear GR is in 0, in leading loco _____ lamp will glow				(C)
	(A)	LSGR	(B)	LSB	
	(C)	LSGRO	(D)	LSOL	

145	In 3Ø loco, if LSFI glowing continuous and further P1 message comes, LSFI will _____.				(C)
	(A)	Flicker	(B)	Extinguish	
	(C)	Continue to Glow	(D)	Extinguish and Glow	
146	In energy saving mode 3Ø loco, MR blowers will get supply from _____ auxiliary converter.				(A)
	(A)	BUR-3	(B)	BUR-2	
	(C)	BUR-1	(D)	1 Ø transformer	
147	KVA rating of ATEX is _____.				(C)
	(A)	80	(B)	5400	
	(C)	60	(D)	3900	
148	Max output Voltage of ATFEX _____ Volts				(B)
	(A)	750	(B)	80	
	(C)	110	(D)	865	
149	Max output Current of ATFEX is _____ Amps				(A)
	(A)	900	(B)	850	
	(C)	600	(D)	700	
150	If TM -2 is isolated in WAG -5 locos during wheel slipping the condition of QD-1 relay is _____.				(A)
	(A)	Energize	(B)	De energise	
	(C)	No action	(D)	None of the Above	
151	If A34 terminal cut _____ traction failure will be experienced.				(D)
	(A)	TLTE with LSB	(B)	TLTE without LSB	
	(C)	1st notch auto regression with LSP	(D)	TLTE with GR progression	
152	In 3Ø MU locos for VCU reset in trailing loco from leading loco _____ switch is provided.				(D)
	(A)	ECPSW	(B)	BP2DJ	
	(C)	Add DC-DC Converter	(D)	Z –CAB	
153	In 3Ø MU locos, ensure Z-Cab switch position is always in _____ cab side.				(B)
	(A)	Coupled end	(B)	Uncoupled	
	(C)	Shunt cab	(D)	None of the above	
154	In 3Ø Loco if cab-1 pilot lamps are not glowing change the DC-DC converter switch to _____ position.				(C)
	(A)	CAB-1	(B)	AUTO	
	(C)	CAB-2	(D)	0	
155	In 3Ø MU loco, if Z-Cab switch is not available for making CE off and ON in trailing operate VCU rest switch in _____ loco.				(D)
	(A)	Leading	(B)	Leading Cab	
	(C)	Trailing cab of leading	(D)	Trailing	
156	In 3Ø MU loco, Siemens make SRs if SR is isolated check _____ switch along with MCBs.				(B)
	(A)	154	(B)	SW-1& SW -2 on same SR	
	(C)	152	(D)	None of the above	

157	In 3Ø loco, bilingual trouble shooting DDU is available in _____ make propulsion				(D)
	(A)	MEDHA	(B)	BHEL	
	(C)	CGL	(D)	Siemens	
158	In 3Ø loco, in Gersys DDU loco, picture Red colour indicates _____				(A)
	(A)	P1 Message	(B)	P 0 message	
	(C)	Isolation message	(D)	None of the above	
159	In 3Ø loco 9000 HP Siemens make propulsion loco _____ no of Aux converters are provided.				(B)
	(A)	1	(B)	2	
	(C)	3	(D)	None of the above	
160	In 3Ø loco, 6000 HP Siemens make propulsion loco _____ no of systems available .				(B)
	(A)	19	(B)	6	
	(C)	12	(D)	None of the above	
161	In 3Ø loco, 6000 HP Siemens make propulsion loco failure mode can be operated either by changing the 152 switch or through _____.				(C)
	(A)	SB-1	(B)	Rear cab	
	(C)	DDU soft key	(D)	None of the above	
162	In 3Ø loco during energy saving mode _____ BUR only in service.				(D)
	(A)	BUR -1	(B)	BUR -2	
	(C)	A or B	(D)	BUR -3	
164	In 3Ø CCB brake Loco to recover from fault code 036, keep mode switch in _____ position along with A9 emergency to recover fault.				(C)
	(A)	TEST	(B)	LEAD	
	(C)	TRAIL	(D)	HLPR	
165	In 3Ø loco if simulation switch position is mismatched _____ message will be displayed.				(D)
	(A)	F1704 P1	(B)	F1804P1	
	(C)	F1701 P1	(D)	A or B	
166	In 3Ø, E70 brake loco, 36 Electro valve will be in _____ condition in leading loco.				(B)
	(A)	Energize	(B)	De-energise	
	(C)	Open	(D)	None of the above	
167	In 3Ø loco, E70 brake loco, rear cab SA9 isolation valve is in _____ position.				(A)
	(A)	Energize	(B)	De-energise	
	(C)	open	(D)	None of the above	
168	In 3Ø loco, CCB brake Loco fault code 108 indicates _____.				(A)
	(A)	Mode switch mismatch	(B)	A9 switch mismatch	
	(C)	EBV switch mismatch	(D)	SA9 switch mismatch	
169	In 3Ø loco, if HBB-2 processor failed, to work compressors in auto mode, _____ switch position to be changed.				(B)
	(A)	154	(B)	ECPSW	
	(C)	DC-DC converter	(D)	Z CAB	
170	In 3Ø loco, push pull locos self hold mode is active for _____ minutes.				(C)
	(A)	10	(B)	20	
	(C)	100	(D)	30	

171	In 3Ø loco, push pull locos to change the train direction, keep CE is in _____ mode in both locos.				(D)
	(A)	ON	(B)	SELF Hold	
	(C)	Cooling	(D)	OFF	
172	In 3Ø loco, push pull locos, _____ switch is provided to negotiate neutral section.				(B)
	(A)	BLDJ	(B)	ZNN	
	(C)	ZPT	(D)	None of the above	
173	In 3Ø loco, push pull locos rear loco node 600 indicates _____				(C)
	(A)	Only VCB opened	(B)	No Trouble	
	(C)	Main power off	(D)	TE cut	
175	In 3Ø loco, push pull locos _____ brakes in trailing loco are not under control of leading Loco				(A)
	(A)	Direct	(B)	Auto	
	(C)	Parking	(D)	Proportional	
176	In 3Ø loco push pull locos _____ & _____ pressures are not equalized.				(C)
	(A)	BP & FP	(B)	BP & CR	
	(C)	MR & SA 9	(D)	None of the above	
180	In 3Ø loco, push pull locos, Hotel load will be in service in _____ loco				(A)
	(A)	Power car switches ON side loco	(B)	Power car switches OFF side loco	
	(C)	No hotel load provision	(D)	None of the above	
182	In 3Ø loco during self hold mode _____ contactors are in closed position.				(D)
	(A)	126	(B)	218	
	(C)	127 1/1	(D)	126 and 218	
181	In 3Ø loco during cooling mode _____ contactor is in closed position.				(A)
	(A)	126	(B)	218	
	(C)	126 & 218	(D)	None of the above	
182	In 3Ø MU locos if any loco main power off and unable to rectify, try clear block section with _____ minutes or make loco dead.				(B)
	(A)	5	(B)	10	
	(C)	15	(D)	20	
183	In 3Ø MU loco rear loco FP cock position is _____				(A)
	(A)	Close	(B)	Open	
	(C)	Neutral	(D)	Up	
184	In E -70 brake system, in MU if rear loco is dead close ____ cocks.				(A)
	(A)	70,74,136 and 47	(B)	Only 74, 136	
	(C)	Only 47, 136	(D)	Only 70, 47	
185	In E -70 brake system, if unloader valves are dropping pressure continuously, then disconnect _____ valve wire.				(C)
	(A)	52	(B)	32	
	(C)	26	(D)	23	
186	In conventional loco, if HSM switch is in '0', LP will experience _____ trouble				(D)
	(A)	Auto regression with LSP	(B)	Auto regression with LSB	
	(C)	Auto regression with BP drop	(D)	Auto regression after 15 kmph	

187	In conventional Loco, to isolate TMDD device, remove _____ fuse.				(C)
	(A)	CCDD	(B)	CCSM	
	(C)	CCTM	(D)	HCCTM	
188	In conventional loco, to indicate HSM switch position to LP _____ lamp is provided.				(B)
	(A)	LSDD	(B)	LSSM	
	(C)	LSOM	(D)	LSTM	
190	In version-3 MPCS locos if Q50 soft relay indication is red, means_____				(A)
	(A)	Q50 wedged in energized position	(B)	Normally energized	
	(C)	De energized position	(D)	None of the above	
191	In Version 3 MPCS loco, _____ are additionally monitored compared to version-2 MPCS.				(D)
	(A)	Speed, Energy	(B)	BP pressure	
	(C)	BC pressure	(D)	All the above	
192	In Version 3 MPCS loco, _____ lamp is provided to know the status of VCD in case of cab DDU failed.				(A)
	(A)	Add LSVW lamp	(B)	LS IP	
	(C)	Add BPFA	(D)	Add LSFI	

WAG-12 B Locomotives

1	In WAG-12B to trip VCB, operate _____ in rear section.				(D)
	(A)	PT switch to emergency	(B)	Open RS	
	(C)	Apply A9 to emergency	(D)	All the above	
2	In WAG-12B if both pantos are raised, follow speed restriction of _____ Kmph				(C)
	(A)	60	(B)	100	
	(C)	80	(D)	90	
3	In WAG-12B _____ position of HHTs will allow raising of single pantograph				(A)
	(A)	Close	(B)	Open	
	(C)	Neutral	(D)	All the above	
4	In WAG-12B if any Z sec key is in High Voltage disconnection position _____ will not work				(B)
	(A)	SA-9	(B)	Panto	
	(C)	A-9	(D)	None of the above	
5	In WAG-12B Dehumidifier will work with _____ voltage				(B)
	(A)	110 V AC	(B)	110 V DC	
	(C)	415 V AC	(D)	None of the above	
6	In WAG-12B MCPA will work when _____ switch is operated.				(D)
	(A)	100	(B)	MASCON	
	(C)	Z-SEC	(D)	BA connect	
7	In WAG-12B If Zero speed relay is not working _____ will not work				(C)
	(A)	Master controller	(B)	Reverser	
	(C)	Regenerative Brake	(D)	Auto Brake	
8	In WAG-12B if One Section Oil Pump of Transformer is failed, TE will reduce to _____ %				(B)
	(A)	75	(B)	87.5	
	(C)	50	(D)	No reduction	
9	In WAG-12B to isolate Bogie traction power go to the _____ page of DDU.				(D)
	(A)	High voltage	(B)	Brake	
	(C)	Home	(D)	Motor	
10	In WAG-12B to raise or lower pantograph is possible in DDU _____ page.				(A)
	(A)	High voltage	(B)	Brake	
	(C)	Home	(D)	Motor	
11	In WAG-12B Fire detectors are provided in _____ equipment.				(D)
	(A)	E block LP side	(B)	E Block ALP side	
	(C)	H V cubical	(D)	All the above	
12	In WAG-12B ain transformer rating is _____ kVA.				(C)
	(A)	7775	(B)	7450	
	(C)	5848	(D)	5400	
13	In WAG-12B E block DC link Voltage is _____ volts.				(C)
	(A)	1800	(B)	2600	
	(C)	2800	(D)	2900	
14	In WAG-12B communication between two sections are made in _____ system				(D)
	(A)	UIC	(B)	OFC	
	(C)	VCU	(D)	TCMS	

15	In WAG-12B _____ no of Battery charging modules are provided				(D)
	(A)	2	(B)	4	
	(C)	1	(D)	3	
16	In WAG-12B to operate BVR panel ground _____ section(s)				(B)
	(A)	Leading	(B)	Both	
	(C)	Trailing	(D)	Any one	
17	In WAG-12B to check the MCP oil run MCP continuously _____ minutes in winter.				(A)
	(A)	15	(B)	10	
	(C)	5	(D)	Any one	
18	In WAG-12B if IOS blinks with orange colour indicates _____ type of fault.				(C)
	(A)	High critical event	(B)	Low critical event	
	(C)	Medium critical event	(D)	Any one	
19	In WAG-12B to isolate Harmonic filter go to _____ page in DDU				(A)
	(A)	High voltage	(B)	Brake	
	(C)	Home	(D)	Motor	
20	In WAG-12B, E Block LP side is capable of giving supply to _____ equipment				(D)
	(A)	TM 1 &2	(B)	TM 3 & 4	
	(C)	Aux loads	(D)	TM 3 & 4 and aux loads	
21	In WAG-12B ,E Block blower is a _____ speed blower				(A)
	(A)	Dual	(B)	Single	
	(C)	Slow	(D)	High	
22	In WAG-12B,TM blower is having _____ no of control Circuits				(B)
	(A)	1	(B)	2	
	(C)	3	(D)	4	
23	In WAG-12B, HHT will operate in _____ system				(C)
	(A)	Electromagnetic	(B)	Manual	
	(C)	Electro Pneumatic	(D)	Hydraulic	
24	In WAG-12B, if emergency brakes applied at speed above 3 kmph _____ will happen.				(D)
	(A)	VCB open	(B)	Panto lower	
	(C)	BP pressure drop	(D)	All the above	
25	In WAG-12B ,Regenerative brake will cut off when speed is below _____ kmph				(A)
	(A)	5	(B)	10	
	(C)	4	(D)	3	
26	In WAG-12B, for CSC operation from DDU _____ is the minimum speed to be selected.				(C)
	(A)	10	(B)	20	
	(C)	30	(D)	05	
27	WAG-12B, inching mode operation can be selected form _____ page of DDU.				(B)
	(A)	Home	(B)	Driving	
	(C)	High voltage	(D)	Train Bus	
28	In WAG-12B, WSSU is provided to operate loco in _____ Mode.				(B)
	(A)	Grounding	(B)	Work shop	
	(C)	Yard shunting	(D)	Constant speed	

29	In WAG-12B, _____ type of MCP is provided				(D)
	(A)	Reciprocate	(B)	Rolling piston	
	(C)	Scroll	(D)	Rotary screw	
30	In WAG-12B, the capacity of MCP is _____ LPM.				(B)
	(A)	2000	(B)	2430	
	(C)	1500	(D)	2030	
31	In WAG-12B, to isolate MCP close _____ COC.				(A)
	(A)	MASU	(B)	BP	
	(C)	AUX	(D)	SIFA	
32	In WAG-12B, for TE/BE operation in DDU change _____ switch.				(C)
	(A)	ZERO SPEED	(B)	BA SUPPLY	
	(C)	TBC bypass	(D)	MASCON	
33	In WAG-12B, _____ KN are the limitations for ZTEL switch				(D)
	(A)	300, 429	(B)	529, 368	
	(C)	706, 529	(D)	300, 529	
34	In WAG-12B, in standing condition at _____ % of humidity machine room blower will work.				(B)
	(A)	50	(B)	75	
	(C)	30	(D)	100	
35	In WAG-12B, when SA9 and PB applied, parking brake gauge shows _____ Kg/Cm^2 pressure				(A)
	(A)	3.8	(B)	5.0	
	(C)	0.0	(D)	2.5	
36	In WAG 12, DDU is function only in _____ cab				(B)
	(A)	In active	(B)	Active	
	(C)	Rear	(D)	None	
37	In WAG-12B,TM speed sensors are provided at _____				(C)
	(A)	Traction Motor	(B)	E block	
	(C)	TM Gear Case	(D)	None	
38	In WAG-12B, MR pressure safety valve will blow when pressure reaches to _____ Kg/Cm^2				(D)
	(A)	12.0	(B)	10.0	
	(C)	10.7	(D)	12.2	
39	In WAG-12B, in shut down mode Cab/Machine room lights will ON for _____ minutes.				(A)
	(A)	15	(B)	10	
	(C)	5	(D)	Continuously	
40	In WAG-12B, Max TM voltage is _____ volts.				(B)
	(A)	2180	(B)	1430	
	(C)	750	(D)	None	
41	In WAG-12B, _____ type of pantograph is provided.				(D)
	(A)	AM 12	(B)	WBL 22.03	
	(C)	AM 92	(D)	LX 3600	
42	In WAG-12B, if one TCU is isolated max TE of 22.5 axle load loco is _____ KN				(C)
	(A)	706	(B)	514	
	(C)	529	(D)	488	

43	In WAG-12B, to move loco in PTDC mode trip _____ number MCB in both sections.				(A)
	(A)	62 Q 06	(B)	52 Q 06	
	(C)	72 Q 06	(D)	82 Q 06	
44	In WAG-12B, to move loco in PTDC mode, change PERCOS in _____ section only.				(B)
	(A)	Inactive	(B)	Active	
	(C)	Both	(D)	None	
45	In WAG-12B, if one TCU isolated in 22.5 Tonnes axle load loco, max BE is _____ KN				(D)
	(A)	514	(B)	465	
	(C)	488	(D)	385	
46	In WAG-12B, when TE/BE operated from DDU, _____ % TE/BE will get in every stage.				(C)
	(A)	10	(B)	15	
	(C)	5	(D)	20	
47	In WAG-12B, if both Pantos selected in PSS, status of both HHTs are _____				(B)
	(A)	Close	(B)	Open	
	(C)	Struck	(D)	None	
48	In WAG-12B, If VCB toggle switch is defect operate VCB close/open functions from _____				(B)
	(A)	Rear section	(B)	DDU	
	(C)	LV cubical	(D)	None	
49	In WAG-12B, when speed freeze switch is pressed once, _____ minutes of DATA backup will freeze.				(D)
	(A)	45	(B)	15	
	(C)	10	(D)	30	
50	In WAG-12B, if one TCU is isolated, _____ % of max TE is available.				(A)
	(A)	87.5	(B)	50	
	(C)	75	(D)	None	

Conventional EMU/MEMU

1	For Starting of MCPA in all Motor coaches of EMU/MEMU _____ relay has to be energised.				(B)
	(A)	ARR	(B)	ABR	
	(C)	CC1	(D)	CR	
2	For Starting of MCPA in all Motor coaches of EMU/MEMU _____switch has to be operated.				(C)
	(A)	PT raise	(B)	Panto lower	
	(C)	VCB close	(D)	MCPA ON	
3	MCPA will work in EMU/MEMU when RS pressure drops below _____ Kg/cm^2				(A)
	(A)	5.5	(B)	6.0	
	(C)	6.5	(D)	7.0	
4	MCP will work in EMU/MEMU when MR pressure drops below _____ Kg/cm^2				(B)
	(A)	5.5	(B)	6.0	
	(C)	6.5	(D)	7.0	
5	To start MCP in EMU/MEMU _____ relay has to be latched.				(D)
	(A)	NVR	(B)	LTR	
	(C)	CC2	(D)	CR	
6	In EMU/MEMU _____is provided to give 110 V DC to MCP.				(B)
	(A)	Main Rectifier	(B)	Aux rectifier	
	(C)	ASL	(D)	SL	
7	In EMU/MEMU, location of AOVR is _____				(B)
	(A)	Switch group 2	(B)	Switch group 1	
	(C)	Tap changer box	(D)	Rectifier box	
8	In EMU/MEMU coach fans will work with _____ voltage.				
	(A)	141 V AC	(B)	141 V DC	(A)
	(C)	266 V DC	(D)	266 V AC	
9	In EMU/MEMU main TFP Capacity is _____ KVA				(A)
	(A)	950	(B)	1050	
	(C)	1000	(D)	900	
10	In EMU/MEMU main TFP is protected by _____ relay				(B)
	(A)	EFRP	(B)	OLP	
	(C)	EFRA II	(D)	OL-5	
11	In EMU/MEMU tapped winding Voltage is _____ Volts.				(B)
	(A)	782	(B)	391	
	(C)	540	(D)	425	
12	In EMU/MEMU Tapped and Untapped winding Voltage is _____ Volts.				(A)
	(A)	782	(B)	391	
	(C)	540	(D)	425	
13	In EMU/MEMU _____ tapping contactor will not close second Time.				(C)
	(A)	T-5	(B)	T-1	
	(C)	T-6	(D)	T-9	
14	In EMU/MEMU if PT/VCB MCB is tripping even in HOBA off remove _____ jumper and try				(C)
	(A)	D	(B)	C	
	(C)	A	(D)	B	

15	In EMU/MEMU on operation of OL reset _____ relay will not reset.				(D)
	(A)	OL-5	(B)	OL-6	
	(C)	OL-1	(D)	OLP	
16	In EMU/MEMU if MPT MCB is tripping even in HOBA off remove _____ jumper and try				(D)
	(A)	D	(B)	C	
	(C)	A	(D)	B	
17	In EMU/MEMU for partial EP brake operation _____ is provided.				(C)
	(A)	EP switch	(B)	EP MCB	
	(C)	Self lapping cylinder	(D)	Puppet Valve	
18	In EMU/MEMU _____ valve is provided to ensure coach BC pressure limitation				(A)
	(A)	ALV	(B)	Equalizing discharge valve	
	(C)	Triple valve	(D)	Puppet Valve	
19	In EMU/MEMU _____ relay will change the tapping contactors closing.				(B)
	(A)	NR-1	(B)	NR-2	
	(C)	SR	(D)	NVR	
20	In EMU/MEMU CLR will pick _____ A current if Only 3 TMs are in service.				(A)
	(A)	425	(B)	500	
	(C)	325	(D)	540	
21	In EMU/MEMU, if CBR-B relay energises, _____ traction failure will be experienced.				(C)
	(A)	PLTE with MSTL lamp glows	(B)	PLTE with MRTL lamp glows	
	(C)	PLTE with UFL, MSTL and MRTL lamps glows	(D)	PLTE without any lamps glow	
22	If 5A MCB/VCB fault trips in leading MC _____ lamps will glow in that Unit				(B)
	(A)	VCB OFF	(B)	UNIT FAULT	
	(C)	ASR	(D)	BCFR	
23	_____ no. of Brake cylinders available in MC of MEMU				(D)
	(A)	4	(B)	4 + 4	
	(C)	4 + 2	(D)	8 + 4	
24	In EMU/MEMU during emergency application position _____ ports will be in open position in poppet valve in WSF brake system.				(C)
	(A)	A &B	(B)	B & C	
	(C)	C & D	(D)	A& D	
25	In EMU/MEMU to glow emergency lights _____ contactors must be in closed position.				(B)
	(A)	FANs	(B)	Normal Lights	
	(C)	Cab Emergency Light	(D)	None of the above	
26	In EMU/MEMU bell code for the guard to apply brakes is _____.				(A)
	(A)	000000	(B)	000	
	(C)	0000	(D)	00000	
27	In EMU/MEMU _____ Switch is provided to restrict the power supply to the traction motors beyond shunt				(C)
	(A)	ACP	(B)	Control	
	(C)	AWS	(D)	OL reset	

28	In EMU/MEMU _____ Switch is to be operated to avoid VCB closing in particular MC.				(D)
	(A)	CCOS	(B)	MCS	
	(C)	ASS	(D)	TSS	
29	In EMU/MEMU to protect TFP oil from gasses _____ relay is provided.				(A)
	(A)	BIR	(B)	PRV	
	(C)	TTR	(D)	OLP	
30	In EMU/MEMU to protect TFP from high temperature _____ relay is provided.				(C)
	(A)	BIR	(B)	PRV	
	(C)	TTR	(D)	OLP	
31	In EMU/MEMU _____ type of Coupling is provided.				(C)
	(A)	CBC	(B)	TS coupling	
	(C)	Semi-Automatic	(D)	Automatic	
32	In Con -EMU/MEMU, UFL lamp will glow when _____ .				(D)
	(A)	VCB open but ABR in latch	(B)	In MPT in traction with parking	
	(C)	In MPT in traction with brake applied BP pressure 0.0Kg/cm2	(D)	All the above	
33	In Conventional EMU/MEMU, if VCB open switch pressed in VCB/PT MCB in tripped condition VCB will_____				(A)
	(A)	not trip	(B)	Trip	
	(C)	Trip and panto also lower	(D)	None of the above	

Three Phase EMU / MEMU

1	In 3 phase EMU, to start all main compressors, _____switch to be pressed.				(C)
	(A)	ENS.	(B)	MAC Switch in end panel of DTC/NDTC	
	(C)	START all MAC switch.	(D)	CRUISE Control switch.	
2	In 3 phase EMU, even if all brakes are released, still MIN 1 BR Applied lamp glowing, keep _____switch in isolation position.				(D)
	(A)	Emergency brake loop by pass.	(B)	CAB occupied selector.	
	(C)	Emergency off loop by pass.	(D)	Brake applied loop.	
3	In 3 phase EMU, if emergency OFF push button operated, _____ actions will takes place.				(A)
	(A)	VCB trip, Panto lower.	(B)	VCB trip, BP drop.	
	(C)	VCB trip, Panto lower, BP drop.	(D)	Only BP drop.	
4	In 3 phase EMU, if any one of the MC pantograph not raised, _____lamp will glow in DTC.				(B)
	(A)	Not all MC On.	(B)	Not All Panto Up.	
	(C)	TCN failure.	(D)	Emergency off.	
5	In 3 phase EMU, if any one of the MC VCB not closed, _____lamp will glow in DTC.				(C)
	(A)	TCN failure.	(B)	Not All Panto Up.	
	(C)	Not All Mc On.	(D)	Emergency off.	
6	In 3 phase EMU, in DTC, max. pressure that can be shown in BC gauge _____.				(A)
	(A)	1.2 kg/cm^2.	(B)	1.6 kg/cm^2	
	(C)	0.8 kg/cm^2.	(D)	1.8 kg/cm^2	
7	In 3 phase EMU, if DDU display showing dark, check _____ MCB.				(C)
	(A)	ECN-1 MCB.	(B)	ECN-2 MCB.	
	(C)	TCMS MCB	(D)	CCC-1 MCB.	
8	In 3 phase EMU, to deactivate cruise control, _____to be operated.				(D)
	(A)	Operate ECN switch.	(B)	Operate MAC switch.	
	(C)	Operate fault reset switch.	(D)	Press cruise control again or MCH disturb.	
9	In 3 phase EMU, in case of any unit isolated, its concerned icon indicates _____on DDU.				(C)
	(A)	White back ground with yellow.	(B)	Blue back ground with yellow.	
	(C)	Black back ground with yellow.	(D)	Red back ground with yellow.	
10	In 3 phase EMU, after inserting DCS & ICS key, _____ icon indicates in Blue, i.e., system ready.				(D)
	(A)	VCB icon	(B)	Panto icon	
	(C)	MAC icon.	(D)	Cab occupancy icon.	
11	In 3 phase EMU, location DMH valve and its COC _____.				(D)
	(A)	Under shunting desk in MC.	(B)	In end panel in MC.	
	(C)	Under LP seat, behind cattle guard.	(D)	Under guard desk in DTC.	
12	In 3 phase EMU, even if min 1 brake applied lamp is glowing it indicates _____				(A)
	(A)	EP or Auto brake applied.	(B)	Parking brake applied.	
	(C)	RG brake applied	(D)	Hand brake applied.	

13	In 3 phase MEMU, to apply EP brake _____ has to be operated.				(A)
	(A)	Master controller.	(B)	Brake control handle	
	(C)	TMR side brake valve.	(D)	EMR Push button	
14	In 3 phase EMU, if any one of the MC VCB is opened _____ light will glow.				(D)
	(A)	Emergency off	(B)	Not All Panto Up.	
	(C)	TCN failure.	(D)	Not All MC On.	
15	In 3 phase EMU, to isolate any one Bogie traction power, go to _____ page in DDU.				(B)
	(A)	Brake	(B)	Train settings.	
	(C)	Drive/Brake.	(D)	Over view	
16	In 3 phase EMU, in MC, max. pressure that can be shown in BC gauge _____.				(B)
	(A)	1.2 kg/cm^2.	(B)	1.6 kg/cm^2	
	(C)	0.8 kg/cm^2.	(D)	1.8 kg/cm^2	
17	In 3 phase EMU/MEMU, _____ switch is provided for communication with in Basic unit.				(A)
	(A)	ECN.	(B)	ETB	
	(C)	TCMS	(D)	MCU	
18	In 3 phase EMU, OHE available lamp is available in _____ coach.				(D)
	(A)	DTC	(B)	NDTC	
	(C)	TC	(D)	MC	
19	In 3 phase EMU/MEMU during RDM drive ENS function is in _____ position.				(A)
	(A)	Active.	(B)	Not active	
	(C)	Glow	(D)	None of the above.	
20	In 3 phase EMU, if ICS key is turned off, _____brake will apply automatically.				(B)
	(A)	Auto	(B)	Parking	
	(C)	Emergency.	(D)	EP brake.	
21	In 3 phase EMU, _____protection is provided to safeguard the pantograph in Unwired turn out.				(A)
	(A)	ORD.	(B)	ADD	
	(C)	ECN	(D)	RDM.	
22	In 3 phase EMU, individual CP (MAC) can be isolated by _____ & _____.				(D)
	(A)	DDU, Fault reset switch	(B)	CCU, start all MAC	
	(C)	CCU,MAC Selector switch	(D)	DDU, MAC selector switch in DTC.	
23	In 3 phase EMU, holding brake will release automatically when MCH moves to _____.				(C)
	(A)	Braking	(B)	“0” position	
	(C)	Powering (Traction)	(D)	Regeneration.	
24	In 3 phase EMU, on run, when MCH moved to braking side which brake will come first in MC _____.				(A)
	(A)	Regeneration.	(B)	EP brake.	
	(C)	Parking brake.	(D)	Auto brake.	
25	In 3 phase EMU; individual basic unit can be isolated by _____ & _____.				(B)
	(A)	DDU, Battery supply switch.	(B)	DDU, BASIC UNIT switch in DTC	
	(C)	CCU,BASIC UNIT switch in DTC	(D)	CCU, Battery supply switch.	

26	In 3 phase EMU, if emergency off button is not able to reset, keep _____ switch in isolation position.				(C)
	(A)	Emergency brake loop bye pass.	(B)	CAB occupied selector.	
	(C)	Emergency off loop bye pass.	(D)	Brake applied loop.	
27	In 3 phase EMU, location of auxiliary compressor (APC), _____.				(C)
	(A)	In DTC under truck.	(B)	In MC under shunting desk.	
	(C)	In MC in HT compartment.	(D)	In DTC under guard desk.	
28	In 3 phase EMU, after _____switch operated, the auxiliary compressor (APC) will start if pressure is less.				(B)
	(A)	ICS key on	(B)	BN (battery normal) switch.	
	(C)	DCS on.	(D)	BD switch on.	
29	In 3 phase EMU, location of CIC COC _____				(A)
	(A)	Under MC, after MR reservoir.	(B)	Under TC.	
	(C)	Under DTC/NDTC, after two MR reservoirs.	(D)	In HT compartment in MC.	
30	In 3 phase EMU, to check the Air spring pressure level open _____ page of DDU.				(C)
	(A)	Drive/brake	(B)	Brake	
	(C)	Air spring.	(D)	Train settings	
31	In 3 phase EMU/MEMU, if rake is rolling back with Reverser in F direction _____ brake will apply in case of speed above 5 kmph				(C)
	(A)	AUTO	(B)	Regenerative	
	(C)	EP	(D)	Parking	
32	In 3 phase EMU/MEMU, if rake is rolling back with Reverser in F direction _____ brake will apply in case of speed above 10 kmph				(A)
	(A)	AUTO	(B)	Regenerative	
	(C)	EP	(D)	Parking	
33	In 3 phase EMU/MEMU, battery isolated lamp will glow when _____ switch OFF				(B)
	(A)	Battery Normal	(B)	Battery direct	
	(C)	Battery protection	(D)	Battery under voltage protection	
33	In 3 phase EMU/MEMU, Battery isolated lamp will glow when _____ switch OFF				(B)
	(A)	Battery Normal	(B)	Battery direct	
	(C)	Battery protection	(D)	Battery under voltage protection	
34	In 3 phase MEMU, DCS having _____ positions.				(C)
	(A)	ON, Auto, OFF	(B)	D, OFF, C.	
	(C)	ON, OFF, RDM	(D)	C, Off, RDM	
35	In 3 phase MEMU, holding brake pressure is _____ kg/cm^2				(A)
	(A)	1.2 kg/cm^2	(B)	1.6 kg/cm^2	
	(C)	0.8 kg/cm^2	(D)	1.8 kg/cm^2	
36	In 3 phase MEMU; DMH will come into service when speed is _____ kmph.				(A)
	(A)	5 or more	(B)	10 or more	
	(C)	15 or more	(D)	Stand still (speed 0)	
37	In 3 phase MEMU, in SPECIAL RDM mode V-max shows _____ kmph.				(D)
	(A)	15 kmph	(B)	60 kmph	
	(C)	110 kmph	(D)	100 kmph	

38	In 3 phase MEMU, V max showing 15 kmph indicates _____				(D)
	(A)	Rear DMC driving	(B)	Reverse Movement.	
	(C)	Not logged out properly from maintenance mode.	(D)	Any one of the above	
39	In 3phase MEMU, TM output current is _____amps and TM voltage max _____.				(A)
	(A)	175A,1171V	(B)	1171A,175V	
	(C)	1100A,750V	(D)	1300A,750V	
40	In 3 phase MEMU, normal position of rotating switch on CRW panel _____ position, isolation position is _____ position.				(C)
	(A)	11^0clock, 9^0clock	(B)	1^0clock, 11^0clock	
	(C)	11^0clock, 1^0clock	(D)	9^0clock, 11^0clock	
41	In 3 phase MEMU, if ORD (over reaching detector) acts, _____ happens.				(C)
	(A)	All pantos will lower	(B)	All MC VCBs will open	
	(C)	A & B	(D)	Only concern MC panto lower.	
42	In 3 phase MEMU, holding brake means _____ brakes applies automatically.				(B)
	(A)	Auto brakes by system	(B)	EP brakes by system	
	(C)	Special brakes by system	(D)	Parking brakes by system	
43	In 3 phase MEMU, maximum no 3 phase auxiliary motors provided in one basic unit are _____				(B)
	(A)	19 or 21	(B)	07 or 09	
	(C)	17 or 19	(D)	05 or 07	
44	In 3 phase MEMU, if any one coach air suspension failure speed will reduce to _____ kmph.				(B)
	(A)	101	(B)	55	
	(C)	105	(D)	60	
45	In 3 phase MEMU, in case of panto raised and no tension, panto icon indicates on DDU.				(A)
	(A)	White back ground.	(B)	Blue back ground.	
	(C)	Red back ground.	(D)	Yellow back ground.	
4 6	In 3 phase MEMU, individual CP (MAC) switch positions				(B)
	(A)	Off, on	(B)	Auto, off, on	
	(C)	Manual, auto, off.	(D)	Auto, off.	
47	If parking brakes not released in 3phase MEMU, Vmax shows _____ kmph.				(D)
	(A)	15	(B)	20	
	(C)	10	(D)	Zero force	
48	In 3 phase MEMU/EMU, surge voltage going to TM will be controlled by _____				(B)
	(A)	Lightening arrestor	(B)	Brake chopper	
	(C)	By T.M. itself	(D)	D.C.link	
49	In 3 phase MEMU/EMU during regenerative brake if VCB trips the generated power will be absorbed by _____.				(C)
	(A)	D.C. link	(B)	LTC	
	(C)	Brake chopper	(D)	Aux. converter	
50	In 3 phase EMU/MEMU _____ type of bogie is provided.				(A)
	(A)	BO-BO Fabricated	(B)	BO-BO casted	
	(C)	Bo-BO ‘H’ shape bolster	(D)	BO-BO casted H shape bolster	

Train Set-18 / Vande Bharat

1	In Train-18, DC link Voltage of traction converter is _____ Volts.				(A)
	(A)	2800	(B)	1800	
	(C)	800	(D)	630	
2	In Train-18, Aux Converter DC link Voltage is _____ Volts.				(C)
	(A)	2800	(B)	1800	
	(C)	630	(D)	1600	
3	In Train-18, if OHE supply is not available BD and BN voltage is ON, AAC will work only _____ no of times AAC will work.				(C)
	(A)	18	(B)	9	
	(C)	10	(D)	11	
4	Train-18, Max parking brake pressure when parking brakes are in released condition is _____ Kg/Cm2				(B)
	(A)	4.0	(B)	5.0	
	(C)	6.0	(D)	7.0	
5	In Train-18, to protect DC link from surge voltages, _____ is provided				(A)
	(A)	Brake Chopper	(B)	Crow bar	
	(C)	IGBT	(D)	Pre heeling diode	
6	In Train -18, to control in rush current to DC link _____ is provided				(C)
	(A)	Main resistance	(B)	Low resistance	
	(C)	Pre charge resister	(D)	Pre heeling diode	
7	In Train -18, Brake chopper will come to service when DC link voltage reaches beyond _____ volts.				(A)
	(A)	2100	(B)	1800	
	(C)	1900	(D)	2000	
8	In Train -18, Traction winding input Voltage is _____ volts.				(B)
	(A)	1269	(B)	950	
	(C)	1000	(D)	1800	
9	In Train -18, each RMPU capacity is _____ tonnes				(D)
	(A)	2	(B)	4	
	(C)	6	(D)	8	
10	In Train -18, _____ no of loops must be healthy to avoid Emergency brake application.				(A)
	(A)	2	(B)	4	
	(C)	6	(D)	8	
11	In Train-18, in all ECC panels are provided with _____ type of fire extinguisher				(C)
	(A)	DCP	(B)	CO2	
	(C)	aerosol	(D)	Foam	
12	Train -18, to stop ACP buzzer, press _____ button in DTC.				(B)
	(A)	FDU	(B)	PAS	
	(C)	Emergency OFF	(D)	Emergency Brake	
13	In Train -18, to stop FDU buzzer press/operate, _____ button in DTC.				(D)
	(A)	Emergency Stop	(B)	PAS	
	(C)	Emergency OFF	(D)	FDU enable	

14	In Train-18, to check the Air spring pressure, open _____ page in DDU.				(A)
	(A)	Drive/Brake	(B)	Brake	
	(C)	Over view	(D)	Train setting	
15	In Train-18, 230V single phase AC supply is given by _____transformer				(C)
	(A)	Main transformer	(B)	Aux. Transformer	
	(C)	Isolation transformer	(D)	Traction	
16	In Train-18, Parking brake solenoid valve is provided in _____ coache(s)				(C)
	(A)	DTC	(B)	NDTC	
	(C)	All	(D)	50%	
17	In Train-18, for moving dead, _____ cocks are to be closed in all coaches.				(D)
	(A)	BIC	(B)	Air spring	
	(C)	MR	(D)	EPIC	
18	In Train -18, for moving dead _____ cocks are to be closed in DTCs				(B)
	(A)	BIC	(B)	BPIC	
	(C)	MR	(D)	EPIC	
19	In Train -18, middle BU roof line VCB is in _____ position.				(A)
	(A)	Open	(B)	Close	
	(C)	Neutral	(D)	None of the above	
20	In Train -18, When Door is in closed position and feedback fail to TCMS, to get traction LP has to operate _____ switch				(C)
	(A)	DOAR	(B)	LDLR	
	(C)	ADCR	(D)	LDRR	
21	In Train -18, Doors opening is not possible above _____ kmph speed.				(D)
	(A)	2	(B)	3	
	(C)	4	(D)	5	
22	In Train -18, _____ equipment is provided to give DC voltage supply to Control circuits.				(C)
	(A)	Traction Converter	(B)	Main Transformer	
	(C)	DC Module	(D)	Battery Charger	
23	In Train -18, the purpose of Battery charger is _____				(A)
	(A)	Only to charge Batteries	(B)	To give supply to control circuits	
	(C)	To ensure BN lights glowing	(D)	None of the above	
24	In Train -18, Transformer Oil temperature can be seen in _____ page of DDU				(A)
	(A)	Train settings	(B)	High voltage	
	(C)	Brake	(D)	Home	
25	In Train-18, _____ type of Coupling is provided in Motor coach.				(A)
	(A)	Semi permanent rigid coupling	(B)	Automatic	
	(C)	CBC	(D)	Transition screw	
26	In Train -18, buffer height between coaches is _____ mm.				(C)
	(A)	1030	(B)	1105	
	(C)	960	(D)	940	
27	In Train -18, _____ type of Pantograph is provided				(D)
	(A)	AM-12	(B)	LX 3500	
	(C)	LX 1800	(D)	WBL 22.03	

28	In Train -18, to override Air spring, go to the _____ page in DDU				(A)
	(A)	Train setting	(B)	Log in	
	(C)	Drive/Brake	(D)	Over view	
29	In Train -18,for rake level operations _____ is the main processor				(A)
	(A)	CCU	(B)	MCU	
	(C)	ACU	(D)	PCU	
30	In Train -18,for Motor coach level operations_____ is the main processor				(B)
	(A)	CCU	(B)	MCU	
	(C)	ACU	(D)	PCU	
31	In Train -18, for Trailing coach level operations_____ is the main processor.				(D)
	(A)	CCU	(B)	MCU	
	(C)	ACU	(D)	PCU	
32	In Train -18, in _____ operations emergency brakes will apply without BP pressure drop.				(D)
	(A)	VCD penalty	(B)	Operation of EMR push button	
	(C)	Application MCH to EMR position	(D)	All the above.	
33	In Train -18, if EMR bypass switch is operated to bypass ON position in CRW panel, _____ will not function further.				(A)
	(A)	EMR push button	(B)	EMR brake	
	(C)	EMR OFF	(D)	All the above	
34	In Train-18, operate UV protection switch when Battery Voltage is dropped below _____ Volts				(D)
	(A)	92	(B)	90	
	(C)	88	(D)	86	
35	In Train-18, in one Basic unit Battery capacity is _____AMH				(A)
	(A)	684	(B)	228	
	(C)	452	(D)	124	
36	In Train-18, Batteries are connected in _____ connection				(C)
	(A)	Series	(B)	Parallel	
	(C)	Series-Parallel	(D)	Compound	
37	In Train-18, master MCP will be connected in to _____ calls				(B)
	(A)	Communication calls	(B)	ETBU	
	(C)	Mobile calls	(D)	None	
38	In Train-18, to open doors on left side, TMR has to operate _____ side door open switches				(A)
	(A)	Right	(B)	Left	
	(C)	Up	(D)	Down	
39	In Train -18 16 car formation, if one bogie brakes are isolated, Vmax will drop to _____ KMPH.				(C)
	(A)	140	(B)	130	
	(C)	155	(D)	150	
40	In Train-18, to apply and release of auto brakes _____ valve is provided in all coaches				(D)
	(A)	A1	(B)	A2	
	(C)	A0	(D)	STV200	

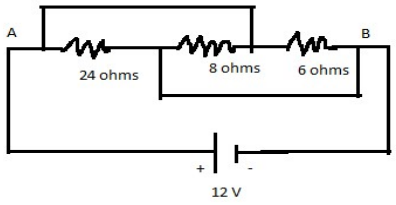
41	In Train-18, 8 car formation, if stopped at neutral section with both VCBs open, change _____ to clear neutral section.				(A)
	(A)	Pantograph as per dead wire	(B)	cab	
	(C)	Isolate roof line VCB	(D)	none	
42	In Train-18, when BP pressure drops to below _____Kg/Cm^2V max becomes '0' kmph				(D)
	(A)	4.0	(B)	3.8	
	(C)	3.6	(D)	3.5	
43	In Train-18, when MR pressure drops to below _____ Kg/Cm^2V max becomes '0' kmph.				(A)
	(A)	6.5	(B)	6.8	
	(C)	7.5	(D)	7.9	
44	In Train-18, while energising of rake Air springs will start charging with pressure after creation of _____ Kg/Cm^2MR pressure only.				(B)
	(A)	7.0	(B)	7.8	
	(C)	7.5	(D)	7.6	
45	In Train-18, in Faiveley brake system _____ no of EP brake isolating cocks are provided in every coach.				(C)
	(A)	2	(B)	3	
	(C)	1	(D)	4	
46	In Train-18, _____ is provided for soft setting Monitoring/Modification of coach level RMPUs by Technician.				(B)
	(A)	CCTV	(B)	CCMS	
	(C)	MCP	(D)	None	
47	In Train-18, to pass neutral section LP has to use _____ switch.				(D)
	(A)	Master controller	(B)	PT switch	
	(C)	Cruise	(D)	ENS	
48	In Train-18, if RMPU is not working, for passenger comfort _____ will work with 110 v DC				(A)
	(A)	Emergency Ventilation Blower	(B)	Natural ventilators	
	(C)	FAN	(D)	None	
49	In Train-18, train journey entry is possible on in _____ MCP.				(B)
	(A)	SLAVE	(B)	MASTER	
	(C)	BOTH	(D)	CCMS	
50	In Train-18, BN switch is available in _____ coach(s)				(C)
	(A)	DTC and TC	(B)	NDTC and MC	
	(C)	DTC and NDTC	(D)	MC and TC	

Basics of Electricity:

1	Three resistances 20 Ω, 30 Ω and 60 Ω are connected in parallel, their combined resistance is given by _____				(D)
	A)	110 Ω	B)	50 Ω	
	C)	20 Ω	D)	10 Ω	
2	Three resistances 4 Ω, 3 Ω and 5 Ω are connected in series, their combined resistance is given by _____				(C)
	A)	6 Ω	B)	3 Ω	
	C)	12 Ω	D)	11 Ω	
3	Flow of electric current in a conductor is due to flow of _____				(B)
	A)	Protons	B)	Electrons	
	C)	Either A/B	D)	None of the above	
4	Which of the following is not a protection device?				(D)
	A)	circuit breaker	B)	Fuse	
	C)	Both A&B	D)	battery	
5	High temperatures can be measured by _____				(D)
	A)	Pyrometer	B)	voltmeter	
	C)	Potential meter	D)	Ammeter	
6	Which of the following is not a type of energy source?				(B)
	A)	Battery	B)	Rheostat	
	C)	Generator	D)	solar cell	
7	A material that does not allow current under normal conditions is a _____				(A)
	A)	Insulator	B)	Semiconductor	
	C)	Conductor	D)	None of the above	
8	An ammeter is an electrical instrument used to measure _____				(C)
	A)	Voltage	B)	Resistance	
	C)	Current	D)	None of the above	
9	Resistances can be measured with the help of a _____				(A)
	A)	Ohmmeter and Multimeter	B)	Wattmeter	
	C)	Voltmeter	D)	Ammeter	
10	Derived Equation from Ohms Law is _____				(A)
	A)	V = IR	B)	V = R/I	
	C)	R = VI	D)	I = R/V	
11	If V = 50 V and I = 5 A, then R = _____				(D)
	A)	50 Ω	B)	5 Ω	
	C)	2 Ω	D)	10 Ω	
12	Unit of voltage is _____				(A)
	A)	Volt	B)	Watt	
	C)	Coulomb	D)	Ampere	
13	Unit of current is _____				(D)
	A)	Volt	B)	Watt	
	C)	Coulomb	D)	Ampere	
14	Unit of energy is _____				(B)
	A)	Volt	B)	Joule	
	C)	Coulomb	D)	Amper	

15	Unit of resistance is _____				(B)
	A)	Ampere	B)	Ohms	
	C)	Volt	D)	Watt	
16	Which of the following quantity remains same in parallel circuit?				(A)
	A)	Voltage	B)	Current	
	C)	Power	D)	Both current & voltage	
17	In Series Circuit, which of the following quantity remains same throughout the circuit is _____				(B)
	A)	Voltage	B)	Current	
	C)	Power	D)	Both current & voltage	
18	The unit of power in S.I. units is _____				(C)
	A)	Newton meter	B)	Ohms	
	C)	Joule/sec	D)	kilogram meter/sec	
19	Which of the following does not change in a transformer?				(C)
	A)	Current	B)	Voltage	
	C)	Frequency	D)	All of the above	
20	In a transformer the energy is conveyed from primary to secondary _____				(C)
	A)	through cooling coil	B)	through air	
	C)	by the flux	D)	none of the above	
21	Which of the following is not a part of transformer installation?				(D)
	A)	Conservator	B)	Breather	
	C)	Buchholz relay	D)	Exciter	
22	A transformer transforms _____				(D)
	A)	Voltage	B)	Current	
	C)	Frequency	D)	power	
23	Primary winding of a transformer _____				(A)
	A)	could either be a low voltage or high voltage winding	B)	is always a high voltage winding	
	C)	Is always a low voltage winding	D)	None of the above	
24	Which winding in a transformer has more number of turns?				(C)
	A)	Secondary winding of Step down	B)	Primary winding of Step down	
	C)	Primary winding of Step up	D)	None of the above	
25	The chemical used in breather for transformer should have the quality of _____				(B)
	A)	ionizing air	B)	absorbing moisture	
	C)	cleansing the transformer oil	D)	Cooling the transformer oil.	
26	The chemical used in breather is _____				(D)
	A)	asbestos fibre	B)	silica sand	
	C)	sodium chloride	D)	silica gel	
27	The transformer ratings are usually expressed in terms of _____				(D)
	A)	volts	B)	Amperes	
	C)	kW	D)	kVA	

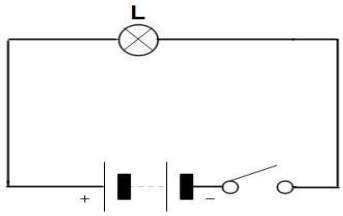
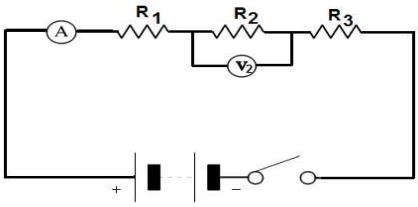
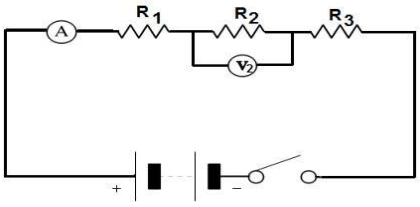
28	A Buchholz relay can be installed on _____				(C)
	A)	auto-transformers	B)	air-cooled transformers	
	C)	oil cooled transformers	D)	welding transformers	
29	Buchholz's relay gives warning and protection against _____				(A)
	A)	electrical fault inside the transformer itself	B)	electrical fault outside the transformer in outgoing feeder	
	C)	for both outside and inside faults	D)	none of the above	
30	Which of the following is the main advantage of an auto-transformer over a two winding transformer?				(A)
	A)	Saving in winding material	B)	Hysteresis losses are reduced	
	C)	Copper losses are negligible	D)	Eddy losses are totally eliminated	
31	The transformer oil should have _____ volatility and _____ viscosity.				(B)
	A)	high, high	B)	low, low	
	C)	low, high	D)	high, low	
32	The function of breather in a transformer is _____				(D)
	A)	to provide oxygen inside the tank	B)	to cool the coils during reduced load	
	C)	to cool the transformer oil	D)	to arrest flow of moisture when outside air enters the transformer	
33	Which of the following listed component will see and perform according to changes in volume of transformer cooling oil due to variation of atmospheric temperature during day and night?				(A)
	A)	Conservator	B)	Breather	
	C)	Buchholz relay	D)	Exciter	
34	The direction of rotation of a D.C. series motor can be changed by _____				(B)
	A)	interchanging supply terminals	B)	interchanging field terminals	
	C)	either of (A) and (B) above	D)	None of the above	
35	According to Fleming's left-hand rule, when the forefinger points in the direction of the field or flux, the middle finger will point in the direction of _____				(A)
	A)	current direction in the field	B)	Magnetic field direction	
	C)	resultant force on conductor	D)	none of the above	
36	Which of the following law/rule can he used to determine the direction of rotation of D.C. motor?				(D)
	A)	Lenz's law	B)	Faraday's law	
	C)	Coulomb's law	D)	Fleming's left-hand rule	
37	Which of the following motor has high starting torque?				(D)
	A)	Three phase ac induction motor	B)	Single phase ac induction motor	
	C)	D.C. shunt motor	D)	D.C. series motor	
38	The unit of capacitance is _____				(C)
	A)	Henry	B)	ohm	
	C)	farad	D)	farad/m	
39	Kirchhoff s current law states that Algebraic sum of the currents meeting at the junction is				(B)
	A)	negative	B)	zero	
	C)	infinity	D)	None of these	

40	According to Kirchhoffs voltage law, the algebraic sum of all IR drops and e.m.f. in any closed loop of a network is _____				(D)
	A)	negative	B)	infinity	
	C)	Determined by battery e.m.f.	D)	zero	
41	Ohms law is applicable at _____				(A)
	A)	Constant temperature	B)	Variable temperature	
	C)	Variable pressure	D)	Constant pressure	
42	Kinetic energy equation is _____				(D)
	A)	½ MV^2	B)	mgh	
	C)	VI	D)	None of these	
43	During discharge of a battery _____				(A)
	A)	The voltage of a battery decreases	B)	The voltage of a battery increases	
	C)	Voltage does not change	D)	None of these	
44	Energy obtained from electric cells and batteries as a result of chemical reaction is called as _____				(D)
	A)	chemical energy	B)	nuclear energy	
	C)	heat energy	D)	electrical energy	
45	One horse power is equal to _____				(D)
	A)	790 watts	B)	700 watts	
	C)	720 watts	D)	746 watts	
46	Energy possessed by a body due to its motion is called _____				(B)
	A)	potential energy	B)	kinetic energy	
	C)	heat energy	D)	chemical energy	
47	Electric generators convert mechanical energy into _____				(C)
	A)	light energy	B)	sound energy	
	C)	electrical energy	D)	chemical energy	
48	Three capacitors 4 F, 3 F and 5 F are connected in parallel, their combined capacitance is given by _____				(C)
	A)	3 F	B)	6 F	
	C)	12 F	D)	10 F	
49	Three inductors 8 H, 3 H and 5 H are connected in series, their combined inductance is given by _____				(A)
	A)	16 H	B)	12 H	
	C)	8 H	D)	10 H	
50	For the circuit shown the equivalent resistance will 				(A)
	A)	3 ohms	B)	12 ohms	
	C)	4 ohms	D)	6 ohms	

51	A light bulb draws 300 mA when the voltage across it is240 V. The resistance of the light bulb is _____ ohms				(B)
	A)	600	B)	800	
	C)	400	D)	1000	
52	You have to replace 1500 resistor in circuit. You have no 1500 resistor but have several 1000Ω one which you would connect				(D)
	A)	two in parallel	B)	two in series	
	C)	three in parallel	D)	two in parallel and one in series	
53	The capacity of battery is expressed in terms of _____				(C)
	A)	Current rating	B)	Voltage rating	
	C)	Ampere-hour rating	D)	None of the above	
54	In battery, cells are connected in series in order to _____				(A)
	A)	Increase the voltage rating	B)	Increase the current rating	
	C)	Increase the life of the cells	D)	None of the above	
55	During charging of a battery, specific gravity of the electrolyte of a lead-acid battery is _____				(A)
	A)	Increases	B)	Decreases	
	C)	Remains same	D)	Becomes zero	
56	Formula for electric power is _____				(A)
	A)	P=VI	B)	P=I/V	
	C)	P=V/I	D)	None of these	
57	Electrolyte used in lead-acid cell is _____				(D)
	A)	NaOH	B)	Only H_2SO_4	
	C)	Only water	D	Dilute H_2SO_4	
58	The specific gravity of electrolyte is measured by _____				(C)
	A)	Manometer	B)	A mechanical gauge	
	C)	Hydrometer	D)	Psychomotor	
59	Capacitors for power factor correction are rated in _____				(B)
	A)	KVA	B)	KVAr	
	C)	KW	D)	None of the above	
60	Lead acid cell should never be discharged beyond _____				(A)
	A)	1.8 V	B)	1.9 V	
	C)	2 V	D)	2.1 V	
61	A transformer oil used in an electrical transformer must be free from _____				(C)
	A)	Gases	B)	Odour	
	C)	Moisture	D)	None of the above	
62	Which type of the following fire extinguisher is used to extinguish an electrical fire?				(C)
	A)	Water Fire Extinguisher	B)	Foam Fire Extinguisher	
	C)	DCP	D)	None of these	
63	The electrical Power to a Megger is provided by _____				(C)
	A)	Battery	B)	Permanent Magnet DC Generator	
	C)	Either A or B	D)	None of these	

64	The rotor of an induction motor runs at _____				(B)
	A)	Synchronous speed	B)	Below synchronous speed	
	C)	Above synchronous speed	D)	Any of the above	
65	The direction of rotation of a 3-phase induction motor can be reversed by _____				(A)
	A)	transposing any two leads from supply	B)	transposing any two leads from slip rings	
	C)	transposing all the three leads from the supply	D)	disconnecting any one phase	
66	The material used for the laminations of armature core of a D.C. Machine is _____.				(D)
	A)	Copper	B)	Aluminium	
	C)	Iron	D)	Silicon steel	
67	A D.C. Generator works on the principle of _____				(A)
	A)	Faraday's law of electromagnetic induction	B)	Lenz's law	
	C)	Ohm's law	D)	None of the above	
68	In an electrical circuit, two resistors of 2 Ω and 4 Ω respectively are connected in series to a 6V battery. The heat dissipated by the 4 Ω resistor in 5 seconds will be _____				(B)
	A)	5 J	B)	20 J	
	C)	30 J	D)	10 J	
69	The back e.m.f. of DC Motor is zero when _____				(C)
	A)	The motor is running at its rated speed	B)	The motor is running at 80% of its rated speed	
	C)	The motor is about to start	D)	The motor is running at 20% of its rated speed	
70	If the flux of DC Motor approaches zero, its speed will be _____				(C)
	A)	Zero	B)	Between zero and Infinity	
	C)	Infinity	D)	No change in Speed	
71	An insulator should have _____				(A)
	A)	High resistance	B)	High Conductivity	
	C)	High Conductance	D)	All of the above	
72	For a transformer the condition for maximum efficiency is _____				(C)
	A)	Hysteresis losses = Eddy current losses	B)	Copper losses = Hysteresis losses	
	C)	Copper losses = Iron losses	D)	Total losses = 2/3 Copper losses	
73	Which of the following transformers will be largest in size _____				(A)
	A)	1 kVA, 25Hz	B)	1 kVA,50Hz	
	C)	1 kVA,60Hz	D)	1 kVA, 100Hz	
74	A transformer has full load copper losses of 800Wand Core losses of 600W. Total losses at no-load will be approximately _____				(B)
	A)	800W	B)	600W	
	C)	100W	D)	1400W	
75	A single Phase motor is _____				(C)
	A)	Self starting	B)	Not self-starting	
	C)	Self-starting with the help of auxiliary winding	D)	None of the above	

76	A Capacitor Start Motor has _____				(A)
	A)	High Starting torque	B)	Low Starting torque	
	C)	Low Power factor	D)	None of the above	
77	The speed of a 4 pole, 50 Hz synchronous motor is _____				(D)
	A)	750rpm	B)	1000rpm	
	C)	1200rpm	D)	1500 rpm	
78	Hunting in Synchronous motor occurs due to _____				(A)
	A)	Sudden load variations	B)	Changes in excitation	
	C)	Both A & B	D)	None of these	
79	By increasing the resistance in the field circuit of a DC Motor, its speed is _____				(C)
	A)	Remains Constant	B)	Increases	
	C)	Decreases	D)	None of these	
80	Transformer works on the principle _____				(B)
	A)	Self Induction	B)	Faraday's law of mutual induction	
	C)	Self and mutual induction	D)	None of these	
81	The starting current in a squirrel cage induction motor is _____				(C)
	A)	Equal to full load current	B)	Thrice the full load current	
	C)	Five to Six times the full load current	D)	None of these	
82	The line current taken by 3ø delta connected load is 10amps.The current in each phase will be _____				(C)
	A)	10Amps	B)	3 x 10Amps	
	C)	$10/\sqrt{3}$ Amps	D)	None of these	
83	The speed of a D.C. Motor is				(B)
	A)	Always Constant	B)	Directly proportional to back e.m.f.	
	C)	In Directly proportional to back e.m.f	D)	None of these	
84	In an Inductive Load p.f. is _____				(B)
	A)	Leading	B)	Lagging	
	C)	Unity	D)	None of these	
85	The ratio of max. value to r.m.s. value is called _____				(C)
	A)	Power Factor	B)	Form factor	
	C)	Peak factor	D)	None of these	
86	Two watt meter method is used for measuring power in _____				(B)
	A)	Single Phase AC Circuit	B)	3 Phase AC Circuit	
	C)	2 Phase AC Circuit	D)	None of these	
87	In case of Star Connection _____				(A)
	A)	$I_L = I_{PH}$	B)	$I_L = \sqrt{3} I_{PH}$	
	C)	$I_L = I_{PH}/\sqrt{3} I_{PH}$	D)	$\sqrt{3} I_L = I_{PH}$	
88	For maintaining power supply quality, the frequency variation of power supply restricted to _____				(D)
	A)	±1%	B)	±2%	
	C)	±5%	D)	±3%	

89	For maintaining power supply quality, the voltage variation of power supply restricted to _____				(C)
	A)	±1%	B)	±2%	
	C)	±5%	D)	±3%	
90	The energy stored in an inductor is equal to _____				(B)
	A)	½LI	B)	½LI^2	
	C)	LI^2	D)	None of these	
91	Which of the following variety of copper has the best conductivity?				(C)
	A)	Induction hardened copper	B)	Hard Drawn Copper	
	C)	Pure Annealed Copper	D)	None of these	
92	The conductivity of a conductor can be increased by _____				(A)
	A)	Decreasing its temperature	B)	Increasing its temperature	
	C)	Decreasing its vibration	D)	Increasing its vibration	
93	The resistance of a parallel circuit consisting of two branches is 12 ohms. If the resistance of one branch is 18ohms, what is the resistance of the other				(B)
	A)	18 ohms	B)	36 ohms	
	C)	24 ohms	D)	12 ohms	
94	What is the direction of the conventional current through the light bulb in the circuit presented by the diagram below? 				(C)
	A)	↑	B)	↓	
	C)	←	D)	→	
95	Three resistors: R_1 = 5 Ω,R_2 = 3 Ω, and R_3= 4 Ω are connected in series to each other. A voltmeter connected in parallel to resistor R_2 measures voltage of 6 V. What is the net voltage in the circuit? 				(A)
	A)	24 V	B)	16 V	
	C)	12 V	D)	36 V	
96	Three resistors: R_1 = 5 Ω, R2 = 3 Ω, and R_3 = 4 Ω are connected in series to each other. A voltmeter connected in parallel to resistor R_2 measures voltage of 6 V. What is the current through the battery? 				(D)
	A)	8 A	B)	6 A	
	C)	4 A	D)	2 A	

97	Apparent power is measured in terms of _____				(A)
	A)	VA	B)	V	
	C)	A	D)	None of these	
98	Fuse is a piece of wire of a material with _____				(C)
	A)	High melting point	B)	Moderate melting point	
	C)	Low melting point	D)	None of these	
99	In an electrical circuit three incandescent bulbs A, B and C of rating 40 W, 60 W and 100 W respectively are connected in parallel to an electric source. Which of the Following is likely to happen regarding their brightness?				(C)
	A)	Brightness of all the bulbs will be the same	B)	Brightness of bulb A will be the maximum	
	C)	Brightness of bulb B will be more than that of A	D)	Brightness of bulb C will be less than that of B	
100	In general working frequency in India is _____				(C)
	A)	40 Hz	B)	60 Hz	
	C)	50 Hz	D)	55 Hz	

Duties of Running Supervisor:

1	_____ no. of categories available in LP gradation.				(D)
	(A)	2	(B)	2	
	(C)	3	(D)	4	
2	A Grade LP to be monitored once in _____ months				(C)
	(A)	1	(B)	2	
	(C)	3	(D)	4	
3	Newly promoted LP (G) to be graded as _____ grade and again carryout gradation after 1 year.				(C)
	(A)	A	(B)	B	
	(C)	C	(D)	D	
4	Newly promoted LP(G) _____ no. of night trips to be given for LR				(B)
	(A)	1	(B)	2	
	(C)	3	(D)	4	
5	In CMS, in crew booking _____ no. of selections are available.				(D)
	(A)	1	(B)	2	
	(C)	4	(D)	3	
6	CMS, expand WOR _____				(A)
	(A)	With of rule	(B)	Without rule	
	(C)	Wrong on to working	(D)	Without rule to with Rule	
7	Running staff duty hours at a stretch should exceed _____ no. of hours.				(C)
	(A)	9	(B)	11	
	(C)	12	(D)	8	
8	Call serve time to Running staff will be _____				(B)
	(A)	Not included in Rest period	(B)	included in Rest period	
	(C)	After sun rise.	(D)	None of the above	
9	Codal life of Walkie –Taklie cell supplied to Running staff is _____				(B)
	(A)	2 Years	(B)	1 Year	
	(C)	6 Months	(D)	9 months	
10	In WAG -9 loco wheel dia difference allowed in same new axle is _____ mm				(C)
	(A)	1.0	(B)	1.5	
	(C)	0.5	(D)	2.0	
11	In WAP-5, wheel flange allowed root ware is _____ mm				(D)
	(A)	2	(B)	3	
	(C)	5	(D)	4	
12.	Minimum buffer height of a locomotive is _____ mm				(B)
	(A)	1105	(B)	1030	
	(C)	960	(D)	940	
13	Wheel gauge in locomotives _____ mm with ± tolerance				(D)
	(A)	1598	(B)	1600	
	(C)	1599	(D)	1596	
14	Allowed Wheel dia difference between two bogies of same new loco is _____ mm				(B)
	(A)	20	(B)	15	
	(C)	10	(D)	5	

15	Maximum buffer height of a locomotive is _____ mm				(A)
	(A)	1105	(B)	1030	
	(C)	960	(D)	940	
16	Track gauge in straight track is allowed up to _____				(C)
	(A)	+3 mm or -3 mm	(B)	+15 mm or -6 mm	
	(C)	+6 mm or -6 mm	(D)	+20 mm	
17	Track twist is allowed in high speed route is _____				(B)
	(A)	3.0 mm/m	(B)	3.5 mm/m	
	(C)	4.0 mm/m	(D)	4.5 mm/m	
18	Sharpe flange of a wheel will leads to _____				(C)
	(A)	Wheel will mount on rail head	(B)	Wheel drop inside rail	
	(C)	Taking of two routes at Point	(D)	None of the above	
19	Track gauge in up to 4 degree curve track is allowed up to _____				(B)
	(A)	+3 mm or -3 mm	(B)	+15 mm or -6 mm	
	(C)	+6 mm or -6 mm	(D)	+20 mm	
20	Track gauge in beyond 4 degree curve track is allowed up to _____				(D)
	(A)	+3 mm or -3 mm	(B)	+15 mm or -3 mm	
	(C)	+6 mm or -6 mm	(D)	+20 mm	
21	In S&T, track circuit TPR relay will ensure _____				(A)
	(A)	Track occupation	(B)	Signal position	
	(C)	Point condition	(D)	None of the above	
22	Point setting failure will be considered when gap between stock and tongue rail is above _____ mm				(B)
	(A)	3	(B)	5	
	(C)	2	(D)	2.5	
23	In S&T track circuit UCR relay will ensure _____				(C)
	(A)	Track occupation	(B)	Signal position	
	(C)	Route checking	(D)	None of the above	
25	In case C grade loco pilot is unable to upgrade, he has to send for _____ course.				(B)
	(A)	Promotional course	(B)	Refresher course	
	(C)	PME	(D)	None of the above	
26	In case, A or B grade Loco pilot downgraded to C grade, he should be sent for _____ course.				(D)
	(A)	Promotional course	(B)	None of the above	
	(C)	PME	(D)	Refresher course	
27.	In LHB coaches FIBA will act when air spring pressure drops below _____ Kg/Cm^2				(C)
	(A)	1.5	(B)	2.0	
	(C)	1.0	(D)	2.5	
28	In LHB coach, brake accelerator will work when BP pressure drops below _____ Kg/Cm^2				(A)
	(A)	3.6	(B)	3.8	
	(C)	4.0	(D)	4.1	

29	In LHB coaches, _____ valve is provided in brake cylinder pipe line for slip and slid protection.				(C)
	(A)	DV	(B)	Brake accelerator	
	(C)	Dump Valve	(D)	FDU	
30	In smoke detector provided coaches, if fire detected, BP will drop from _____ valve				(D)
	(A)	DV	(B)	Brake accelerator	
	(C)	Dump Valve	(D)	Fire detection solenoid valve	

TRD / OHE

1	CORE				(B)
	(A)	Centre For Rural Electrification	(B)	Central Organization for Railway Electrification	
	(C)	Co-Related	(D)	Centre of Research & Economy	
2	RDSO				(A)
	(A)	Research Designs & Standards Organization	(B)	Revenue for Direct Supply Order	
	(C)	Railway, Design & Standard Organization	(D)	Research, Design & Specification Organization	
3	RITES				(B)
	(A)	Railway Institute for Technical & Economical Services	(B)	Rail India Technical & Economic Services	
	(C)	Railway India Trading & Economical Services	(D)	Railway India Technical & Engineering Services	
4	SCADA				(C)
	(A)	Supervisory Control & Data Acquisition	(B)	Supervisor Computer & Data Acquisition	
	(C)	Supervisor Control & Discipline Act	(D)	Super Computer & Data Acquisition	
5	IRCAMTECH				(D)
	(A)	Indian Railways Council for Advanced Material Technology	(B)	Indian Railways Committee for Advanced Material Technology	
	(C)	Indian Railways Centre for Advanced Material Technology	(D)	Indian Railways Centre for Advanced Maintenance Technology	
6	Full form of SWR				(B)
	(A)	Section Working Rules	(B)	Station Working Rules	
	(C)	Safety Working Rules	(D)	Safety with remote control	
7	Expand PTFE?				(D)
	(A)	Plastic Tetra Fluoro Ethane	(B)	Poly Thermo Finials Ethane	
	(C)	Poly Tetra Fluoro Ethane	(D)	Poly Tetra Fluoro Ethylene	
8	Expand CRS?				(B)
	(A)	Commissioner of Rail Security	(B)	Commissioner of Railway Staff	
	(C)	Chairman of Rail Security	(D)	Commissioner of Rail Safety	
9	Expand EIG?				(A)
	(A)	Electrical inspector to the government	(B)	Electrical informer to the government	
	(C)	Engineering inspector to the government	(D)	Electrical inspector general	
10	Expand NETRA?				(B)
	(A)	Network of Electrification, Testing and Reporting Apparatus	(B)	Network of Electrification, Testing and Recording Apparatus	
	(C)	Network of Electrification, Training and Reporting Apparatus	(D)	Both A and B	

11	A neutral section is provided in OHE between two 25 kV, single phase, 50 Htz. traction substations due to _____				(A)
	(A)	To separate the zones, which fed by the adjacent substation of different phase	(B)	To increases the current carrying capacity of the OHE	
	(C)	To minimise the voltage drop in OHE conductors	(D)	All of the above	
12	The distance of OHE section between FP & SP is called _____				(C)
	(A)	Feeding length	(B)	Feeding zone	
	(C)	Sector	(D)	Sub sector	
13	The distance of OHE section, for which "a traction transformer will feed power in emergent condition" is called _____				(A)
	(A)	Feeding length	(B)	Feeding zone	
	(C)	Sector	(D)	Sub sector	
14	The distance of OHE section, for which "a traction transformer will feed power in normal condition" is called _____				(B)
	(A)	Feeding length	(B)	Feeding zone	
	(C)	Sector	(D)	Sub sector	
15	The shortest section of OHE, which can be isolated through remote control by TPC is called _____				(D)
	(A)	Elementary section	(B)	Feeding zone	
	(C)	Sector	(D)	Sub sector	
16	Difference between two consecutive span length should not be more than _____				(C)
	(A)	25 m	(B)	20 m	
	(C)	18 m	(D)	16 m	
17	Maximum tension length in AC traction (regulated OHE) is _____				(A)
	(A)	1500 m	(B)	1600 m	
	(C)	1000 m	(D)	750 m	
18	Which type of overlap is formed at the end of every tension length?				(C)
	(A)	Insulated overlap	(B)	Un-insulated overlap	
	(C)	Either Insulated overlap or un-insulated overlap	(D)	None of the above	
19	At obligatory structure of turnout, it is general practice to give encumbrance of				(D)
	(A)	0.9 m. turnout OHE & 1.4 m main line OHE	(B)	1.4 m. turnout OHE & 1.4 m main line OHE	
	(C)	0.9 m. turnout OHE & 0.9 m main line OHE	(D)	1.4 m. turnout OHE & 0.9 m main line OHE	
20	Maximum permissible gradient of contact wire, when maximum permissible train speed is more than 100 KMPH on main lines is _____				(B)
	(A)	2 mm/m	(B)	3 mm/m	
	(C)	4 mm/m	(D)	5 mm/m	
21	Change in contact wire height with respect to per unit meter length of contact wire is called _____				(A)
	(A)	Gradient of contact wire	(B)	Either Gradient of contact wire or track	
	(C)	Gradient of track	(D)	Neither gradient of contact wire nor track	

22	Maximum permissible gradient of contact wire, when maximum permissible train speed is shunting speed in yards is _____				(D)
	(A)	3 mm/m	(B)	4 mm/m	
	(C)	5 mm/m	(D)	10 mm/m	
23	In AC traction, minimum height of contact wire under ROB/FOB from rail level to permit "C" class ODC is _____				(A)
	(A)	4.92 m	(B)	4.80 m	
	(C)	4.65 m	(D)	5.03 m	
24	At level crossing gate, maximum height of rail height gauge from the road surface for new electrification is _____				(B)
	(A)	4.38 m	(B)	4. 78 m	
	(C)	4.80 m	(D)	4.45 m	
25	In AC traction, minimum height of contact wire at level crossing from rail level (regulated OHE) is _____				(A)
	(A)	5.50 m	(B)	5.55 m	
	(C)	5.60 m	(D)	5.65 m	
26	Droppers are used for _____				(A)
	(A)	Levelling the contact wire	(B)	To maintain stagger	
	(C)	Reduced the sag in catenary wire	(D)	None of the above	
27	No. of layers & strands of AC catenary wire is _____				(B)
	(A)	3 layer & 19 strands	(B)	2 layer & 19 strands	
	(C)	2 layer & 37 strands	(D)	3 layer & 37 strands	
28	Condemning size of 107sq.mm wire on main line?				(C)
	(A)	8.93 mm	(B)	8.34 mm	
	(C)	8.25 mm	(D)	8.89 mm	
29	What is the normal spacing between droppers?				(C)
	(A)	6.75 m	(B)	2.25m	
	(C)	9m	(D)	All of the above	
30	The displacement of contact wire with respect to the pantograph axis is called _____				(B)
	(A)	Implantation	(B)	Stagger of contact wire	
	(C)	Gradient of contact wire	(D)	Sag	
31	On tangent track, contact stagger is 200 mm at support, what will be the catenary stagger?				(D)
	(A)	300 mm	(B)	200 mm	
	(C)	100 mm	(D)	Zero	
32	On curved track , contact stagger is 300 mm. at support, what will be the maximum allowable catenary stagger is _____				(B)
	(A)	300 mm	(B)	200 mm	
	(C)	100 mm	(D)	Zero	
33	What is the mid span stagger for tangent track?				(A)
	(A)	Zero	(B)	100mm	
	(C)	200mm	(D)	400mm	
34	What is the relative stagger of multi cantilever structure?				(C)
	(A)	200mm	(B)	100mm	
	(C)	Zero	(D)	none of the above	

35	What is the width Faively AM-12 type pantograph?				(A)
	(A)	1800mm	(B)	2032mm	
	(C)	2000 mm	(D)	1200 mm	
36	What is the width Faively AM-18 type pantograph?				(B)
	(A)	1800mm	(B)	2032mm	
	(C)	2000 mm	(D)	1200 mm	
37	In regulated OHE, how much tension is kept in OHE _____				(C)
	(A)	As per tension / temperature chart	(B)	3000 kg	
	(C)	2000 kg	(D)	1500 kg	
38	Regulated OHE is suitable for the speed _____				(A)
	(A)	Above 100 KMPH	(B)	Less than 100 KMPH	
	(C)	Up to 80 KMPH	(D)	Up to 90 KMPH	
39	The reason of anti-creep arrangement is “To restrict the OHE movement _____				(A)
	(A)	along the track	(B)	across the track	
	(C)	both across & along the track	(D)	neither across nor along the track	
40	An arrangement of OHE over a track, where two sets of OHE conductors are run parallel to each other for a short distance & provide smooth passage for pantograph is called _____				(C)
	(A)	Turnout	(B)	Crossover	
	(C)	Overlap	(D)	Neutral section	
41	Insulated overlap is required for _____				(A)
	(A)	OHE sectioning purpose	(B)	To kept OHE in current collection zone at curve	
	(C)	To maintain height of OHE conductors	(D)	All of the above	
42	In AC traction, distance between two OHE’s conductor in insulated overlap is kept _____				(A)
	(A)	500 mm	(B)	380 mm	
	(C)	300 mm	(D)	200 mm	
43	In AC traction, distance between two OHE’s conductor in un-insulated overlap is kept _____				(D)
	(A)	375 mm	(B)	300 mm	
	(C)	150 mm	(D)	200 mm	
44	The normal desirable length of zone, where pantograph contacts both contact wires in overlap will be _____				(C)
	(A)	1 m	(B)	4.5 m	
	(C)	6 m to 9 m	(D)	18 m	
45	A short dead section of OHE, which separates two adjoining elementary section & provide smooth passage for pantograph is called _____				(C)
	(A)	Insulated overlap	(B)	Un-insulated overlap	
	(C)	Neutral section	(D)	All of the above	
46	Normally, which type of neutral section have been adopted by Indian Railways				(D)
	(A)	Overlap type	(B)	PTFE type neutral section	
	(C)	Short neutral section comprising section insulator assembly	(D)	All of the above	

47	Minimum effective neutral section length is required in overlap type neutral section _____				(D)
	(A)	49.5 m	(B)	54 m	
	(C)	63 m	(D)	41 m	
48	Which type of neutral section, you prefer in heavily graded or suburban section?				(B)
	(A)	Overlap type	(B)	PTFE type neutral section	
	(C)	Short neutral section comprising section insulator assembly	(D)	None of the above	
49	The length of Arthur floury make PTFE type neutral section is _____				(A)
	(A)	9.50 m	(B)	5.64 m	
	(C)	5.92 m	(D)	6.21 m	
50	PTFE type of neutral section provided on _____				(D)
	A	Mid span	B	1/3 of Span	
	C	$1/10^{th}$ of SPAN	D	Symmetrically on either side of the support	
51	The caution boards to are provided to attend the driver of train show the distance of neutral section location what will be the location of both caution boards from the Neutral section is _____ & _____				(B)
	A	100 m.& 500 m	B	2000 m. & 1000 m	
	C	500 m. & 250 m	D	250 m. & 150 m	
52	Which factor should be taken into account to locate neutral section?				(D)
	A	Signal location	B	Gradient of section	
	C	Level Crossing gate	D	All of above	
53	On tangent track before neutral section, signal location should not be less than _____ mts.				(C)
	A	600	B	500	
	C	400	D	300	
54	On tangent track after neutral section, signal location should not be less than _____ mts				(D)
	A	600	B	500	
	C	400	D	200	
55	At the obligatory location, turn out contact wire is kept _____ mm above from the main line contact wire.				(B)
	A	100	B	50	
	C	20	D	5	
56	Which type of turnout is most suitable for high speed OHE?				(C)
	A	Knuckle type	B	Cross type	
	C	Overlap type	D	All of the above	
57	The obligatory structure of turn out should be located between the points where the separation between the main & turn out track is between _____ mm				(D)
	A	1000 mm -2000 mm	B	100 mm- 500 mm	
	C	0 mm-500 m m	D	700 mm - 150 mm	
58	Inspection of turn out /cross over OHE should be carried out by the tower wagon with the direction & movement of tower wagon as _____				(C)
	A	From main line to turn out	B	To prevent blow-off	
	C	To prevent relative movement between both contact wires	D	To maintain height of both contact wire	

59	Inspection of turn out /cross over OHE should be carried out by the tower wagon with the direction & movement of tower wagon as _____				(D)
	A	From main line to turn out	B	From turn out to main line	
	C	On main line	D	All of the above	
60	At obligatory location, the horizontal separation between main line contact wire & cross over contact wire should not be less than _____ mm				(D)
	A	200	B	320	
	C	100	D	50	
61	A device, which installed in contact wire to separate two elementary section & provide smooth passage for pantograph is called _____				(B)
	A	Insulated overlap	B	Section insulator	
	C	Bracket Assembly	D	Cut-in insulator	
62	At the location of section insulator, maximum stagger of contact wire may be allowed _____ mm				(B)
	A	± 50	B	± 100	
	C	± 200	D	± 300	
63	In AC traction, which jumper distribute the current between catenary wire & contact wire?				(A)
	A	"C" Jumper	B	"F" jumper	
	C	"G" jumper	D	"S" jumper	
64	"F" jumpers are provided at _____				(A)
	A	Insulated overlap	B	Un-insulated overlap	
	C	Turnout	D	Anti creep point	
65	"G" jumper is used at _____				(C)
	A	Insulated overlap	B	Turnout and cross over	
	C	Both uninsulated over lap and turn out and cross over	D	Un-insulated overlap	
66	Length of "G" jumper is _____ mts				(D)
	A	1.2	B	1.5	
	C	2.0	D	4.0	
67	Distance of "G" jumper from the nearest mast is _____ mts				(B)
	A	4.5	B	5.6	
	C	6.75	D	Not fixed	
68	What is the name of the jumper provided to avoid theft of OHE?				(D)
	A	"C" jumper	B	"F" jumper	
	C	"G" jumper	D	Anti theft jumper	
69	The tubes of the cantilever assembly are made out of _____				(D)
	A	Aluminium bronze	B	Aluminium	
	C	Electrolyte copper	D	Galvanized steel	
70	Which is not a part of the cantilever assembly?				(D)
	A	Steady arm	B	Adjuster sleeve	
	C	Anti wind clamp	D	PG clamp	
71	What is the material of normal steady arm (i.e. BFB section)?				(A)
	A	Aluminium alloy	B	Aluminium bronze	
	C	G I	D	Cadmium copper	

72	What is the minimum steady clearance on loop line _____ mm				(A)
	A	180	B	250	
	C	160	D	100	
73	Minimum electrical clearance long duration (vertical) between live & earth for 25 kV AC is _____ mm				(B)
	A	500	B	250	
	C	270	D	220	
74	Minimum electrical clearance short duration (horizontal) between live & earth for 25 kV AC is _____ mm				(C)
	A	390 mm	B	270 mm	
	C	200 mm	D	340 mm	
75	Minimum working clearance for 25 kV AC is _____				(C)
	(A)	500 mm	(B)	1.0 m	
	(C)	2.0 m	(D)	3.0 m	
76	In AC traction return current flows through _____				(C)
	(A)	Traction rail only	(B)	Earth only	
	(C)	Either traction rail or Earth	(D)	None of the above	
77	"Non current carrying parts of electrical machine is connected to the general mass of the earth through suitable size of the conductor" is called _____				(C)
	(A)	Muffing	(B)	Overlapping	
	(C)	Earthing	(D)	Lightning arrester	
78	What is the name of the bond provided at fish plate joint of track?				(D)
	(A)	Z bond	(B)	IR bond	
	(C)	IT bond	(D)	L bond	
79	Portals are used in multi tracks section such as yard, where _____				(A)
	(A)	Track centre to centre is inadequate for independent mast	(B)	vertical load is more.	
	(C)	transverse load is more	(D)	None of above	
80	What is length of mast used for OHE?				(B)
	(A)	9.75m	(B)	9.50 m	
	(C)	9.2m	(D)	12.21m	
81	Maximum no. of cantilever on a drop arm?				(C)
	(A)	1	(B)	2	
	(C)	3	(D)	4	
82	What is the distance between top and bottom attachment for stay and bracket tube?				(C)
	(A)	1.92 m	(B)	1.8m	
	(C)	2 m	(D)	1.5 m	
83	What is the track separation for obligatory mast?				(A)
	(A)	150-700mm	(B)	0-150mm	
	(C)	700-750mm	(D)	none of the above	
84	Minimum Implantation at obligatory mast is _____.				(A)
	(A)	3.0 m	(B)	3.2 m	
	(C)	2.5 m	(D)	2.75 m	

85	Minimum distance of OHE structure in advance of a signal is _____				(C)
	(A)	10 m	(B)	20 m	
	(C)	30 m	(D)	50 m	
86	Minimum distance of OHE structure in behind of a signal is _____				(A)
	(A)	10 m	(B)	20 m	
	(C)	30 m	(D)	50 m	
87	What is the implantation adopted for multi cantilever arrangement ?				(A)
	(A)	3.0 m	(B)	3.2 M	
	(C)	2.5 m	(D)	2.75 m	
88	What do you understand by the high voltage ?				(D)
	(A)	Above 650 volt to 2.2 kV	(B)	Above 650 volt to 11 kV	
	(C)	Above 650 volt to 22 kV	(D)	Above 650 volt to 33 kV	
89	What do you understand by the extra high voltage (EHV) ?				(D)
	(A)	Above 132 kV	(B)	Above 66 Kv	
	(C)	Above 110 kV	(D)	Above 33 kV	
90	A consignment has length, width & height such that one or more of these parameters infringes standard moving dimensions at any point from start to destination, then the consignment is called _____				(B)
	(A)	Over design consignment	(B)	Over dimensional consignment	
	(C)	Out dimensional consignment	(D)	Over dimensional coach	
91	In 25 kV AC traction, if clearance between ODC & contact wire is less than 200 mm but more 100 mm ,than ODC permitted with _____				(C)
	(A)	No speed restriction & with power block	(B)	No speed restriction &without power block	
	(C)	15 kmph speed & with power block	(D)	ODC not permitted	
92	In 25 kV AC traction, if clearance between ODC & contact wire is less than 100 mm, then ODC permitted _____				(D)
	(A)	No speed restriction & with power block	(B)	No speed restriction & without power block	
	(C)	15 kmph speed & with power block	(D)	ODC not permitted	
93	If the gross clearance between ODC & fixed structure is 228.6 and above, than ODC is called				(A)
	(A)	'A' class ODC	(B)	'B' class ODC	
	(C)	'C' class ODC	(D)	All of the above	
94	In 25 kV AC traction, if clearance between ODC & contact wire is more than 250 mm than ODC permitted with				(B)
	(A)	No speed restriction & with power block	(B)	No speed restriction &without power block	
	(C)	15 kmph speed &without power block	(D)	None of the above	
95	In 25 kV AC traction, if clearance between ODC & contact wire is less than 250 mm but more 200 mm, than ODC permitted with _____				(C)
	(A)	No speed restriction & with power block	(B)	No speed restriction & without power block	
	(C)	15 kmph speed & without power block	(D)	none of the above	

96	In 3- pulley block type ATD, the counter weight is _____				(D)
	(A)	400 kg	(B)	465 kg	
	(C)	440 kg	(D)	665 kg	
97	In 3-pulley type ATD(new & old), the measurement 'Y' at 35^0 C is _____				(D)
	(A)	2600 mm	(B)	2500 mm	
	(C)	2450 mm	(D)	2300 mm	
98	In tramway type OHE , the counter weight for three pulley ATD is _____				(B)
	(A)	200 kg	(B)	415 kg	
	(C)	265 kg	(D)	400 kg	
99	If tension length is maximum 750 m, ATD is provided at one end and other end is fixed anchor. Where will be the anti-creep point in this condition?				(D)
	(A)	350 m from the ATD	(B)	375 m from the ATD	
	(C)	300 m from the ATD	(D)	Anti-creep not required	
100	To minimize the possibility of panto entanglement, inserting a pipe of suitable length in hex tie rod (ATD). Suitable length of pipe depends upon _____				(C)
	A)	Lowest temperature in the region	B)	Highest temperature in the region	
	C)	Both tension length & lowest temperature in the region	D)	Both tension length & highest temperature in the region	
101	Current collection test is carried out in OHE to find out _____				(D)
	A)	Current carrying capacity of catenary wire	B)	Current carrying capacity of contact wire	
	C)	Current carrying capacity of different jumpers	D)	Location of sparking during movement of pantograph	
102	During traffic block, which type vehicles movement is blocked in traffic block section ?				(D)
	A)	Electric hauled	B)	Diesel hauled	
	C)	Steam hauled	D)	All of the above	
103	During power block, which type vehicles movement is blocked in power block section ?				(A)
	A)	Electric hauled	B)	Diesel hauled	
	C)	Steam hauled	D)	All of the above	
104	Which point should be considered by the person, who returned power block to the TPC?				(D)
	A)	All men & materials have been withdrawn from the electrified equipment and its vicinity	B)	All earthing should be removed	
	C)	All working staff should be warned that the power supply is to be restored	D)	All of the above	
105	A section on which power block has been granted, the longitudinal protection as a protective measure is taken to stop the movement of electric loco running on the _____				(A)
	A)	Same track	B)	Adjacent track	
	C)	Diamond crossing	D)	All of the above	

106	A section on which power block has been granted, the lateral protection as a protective measure is taken to stop the movement of electric loco running on the _____.				(B)
	A)	Same track	B)	Cross over track to the same track	
	C)	Adjacent track	D)	All of the above	
107	Which types of OHE breakdown are usually occur in OHE?				(D)
	A)	Uprooting of or damage to OHE mast on account of cyclone derailment etc.	B)	Entanglement of panto with the OHE ,snapping of OHE conductors on account of fault & stray wire etc.	
	C)	Flash over or other damage to insulators	D)	All of the above	
108	On receipt of the first report about the breakdown by the TPC , the first & prime step is taken by the TPC is to _____				(C)
	A)	Direct TRD official to proceed to the site	B)	Inform Sr. DEE /TRD & other officers and seek their direction	
	C)	Switch off power supply to the affected lines & inform the section controller	D)	Permitting movement of steam or diesel hauled train, if possible	
109	The first supervisors or officers of the TRD, reaching the site of the breakdown should _____				(D)
	A)	Arrange for preservation of evidence	B)	Make a quick assessment of damage & the time required for restoration	
	C)	Arrange or ensure the safety rules to be observed as per GR & SR	D)	All of the above	
110	Choose the correct sequences of action which followed by TPC in case of section not holding 25 kV power supply (1) Isolate the healthy section on adjacent track on the same route length (2) Identify the faulty section and isolate it after that. (3) In case mid section driver is not in communication and section controller advised for switching on the OHE supply, TPC should on the OHE supply 5 minutes after the OHE tripping. (4) Energize healthy section on the advice of section controller (5) Advice section controller about isolation of faulty & healthy section				(A)
	A)	2- 1- 5 – 4 - 3	B)	1- 2- 3 – 4 - 5	
	C)	3 - 5- 4 – 1- 2	D)	2- 1- 4 –5- 3	
111	When more than one tower wagons are working in the same block section, which instructions should be followed _____				(D)
	A)	T/W's should not move at speed more than 10 kmph & should be ready to stop.	B)	Both T/W's, when entering or clearing the block section, both T/W's should maintain a minimum distance of 120 meters to each other.	
	C)	After completion of the work the official in- charge of the T/W, who entered last in the section shall certify at the clearing station about clearance of the section by the last T/W.	D)	All of the above.	

112	Lightning arrester prevents OHE from _____				(A)
	A)	Surge & transient voltage	B)	Corrosion of –ve path conductor	
	C)	Back e.m.f.	D)	All of the above.	
113	Overload capacity of Traction power transformer?				(C)
	A)	50% overload for 15minutes	B)	100% overload for 5minutes	
	C)	both A & B	D)	none of the above	
114	Expand SRC?				(A)
	A)	Supervisory Remote Control	B)	Section Remote Control	
	C)	Supervisory Rapid Control	D)	Supervisory Remote Controller	

G & SR / Accident Manual

1	_____ is the authorized officer of South Central Railway				(B)
	(A)	CRS	(B)	COM	
	(C)	DRM	(D)	CSO	
2	BOL in TAS and MAS is _____ meters, which shall be reckoned from _____.				(B)
	(A)	200-180-LSS	(B)	400-180-FSS	
	(C)	120-120-LSS	(D)	200-180-FSS	
3	SOL in TAS and MAS is _____ and _____ meters.				(C)
	(A)	120-120	(B)	400-180	
	(C)	180-120	(D)	180-180	
4	SOL is measured on Single Line from and on Double Line from _____				(A)
	(A)	Trailing Points-Shunting Limit Board	(B)	BSLB-SLB	
	(C)	Trailing Points-BSLB	(D)	LB-PB	
5	The distance from Home signal to BSLB shall not be _____ less than meters.				(A)
	(A)	180	(B)	120	
	(C)	400	(D)	580	
6	At Standard-III(R) interlocking station the maximum speed permitted for the train on ML is above _____ kmph.				(C)
	(A)	15	(B)	50	
	(C)	140	(D)	MPS	
7	Isolation is necessary where the trains are permitted to go above _____ KMPH at a station.				(B)
	(A)	15	(B)	50	
	(C)	75	(D)	MPS	
8	_____ is the best positive method of isolation.				(D)
	(A)	Cut point	(B)	Catch siding	
	(C)	Slip siding	(D)	Sand hump	
9	Point indicator, wherever available shall show _____ during day and _____ light during night when point is set for loop line.				(D)
	(A)	White Target-White	(B)	Green Target– Green light	
	(C)	No Target–White	(D)	No Target- Green	
10	When Trap indicator is provided, it shall show _____ during day and _____ light during when it is in open position.				(B)
	(A)	White Disc-White	(B)	Red Disc - Red light	
	(C)	No Target – White	(D)	None of the above	
11	On Double line class “B” station Multiple Aspect Signalling station section lies between _____ to _____ signal in either direction.				(C)
	(A)	SLB-LSS	(B)	Home-LSS	
	(C)	BSLB-LSS	(D)	BSLB-HOME	
12	Station Section is available only at _____ Station.				(B)
	(A)	Class A	(B)	Class B	
	(C)	Class C	(D)	Class D	
13	South Central Railway is divided into _____ Zones for the purpose of Weather Warning.				(B)
	(A)	8	(B)	7	
	(C)	9	(D)	1	

14	Heavy winds above _____ KMPH is considered as dangerous for running trains.				(A)
	(A)	65	(B)	45	
	(C)	30	(D)	25	
15	Rainfall above _____ cross in 24 hours is considered as dangerous for running trains.				(A)
	(A)	5 cm	(B)	6 cm	
	(C)	7 cm	(D)	8 cm	
16	When there is severe storm endangering the safety of passenger trains, SM shall not _____				(C)
	(A)	Exchange of all right signal	(B)	Take OFF LSS orTake off Starter	
	(C)	Grant LC or Give LC	(D)	None of the above	
17	At non-interlocked station, speed of the trains on main line shall not _____ exceed KMPH.				(A)
	(A)	30	(B)	20	
	(C)	35	(D)	15	
18	Axle counters and track circuits are treated as authorized _____				(A)
	(A)	Means of Communication	(B)	Means of Knowledge	
	(C)	Means of Transportation	(D)	None	
19	A train, which has started under an ATP and has not completed its journey, is called _____				(C)
	(A)	SOL	(B)	POL	
	(C)	TOL	(D)	None	
20	Outer signal is available only at station with _____ type of signals				(B)
	(A)	Class A-MAS	(B)	Class B-TAS	
	(C)	Class B-MAS	(D)	Class C-TAS	
21	At a class “B“ station, Single line with MAS, the distance from home signal to outer most facing point shall be not less than _____ meters.				(A)
	(A)	300	(B)	200	
	(C)	500	(D)	180	
22	In MAS, a single arm home signal is sufficient (common Home) as long as the train speed does not exceed _____ kmph.				(C)
	(A)	50	(B)	65	
	(C)	75	(D)	15	
23	Starter signal protects _____				(B)
	(A)	Facing Points	(B)	Trailing Points	
	(C)	Block Section	(D)	Station section	
24	To start a train from a station having common starter, the LP shall be given _____				(A)
	(A)	T/512, ATP, PHS	(B)	T/511, ATP, PHS	
	(C)	T/409, ATP, PHS	(D)	T/3693(b), ATP, PHS	
25	General target time for turning out MRV with direct/indirect dispatch facility is _____ minutes.				(B)
	(A)	30 / 45	(B)	15 / 20	
	(C)	20 / 15	(D)	5 / 10	
26	General target time for turning out ART during day/ night is _____ minutes				(A)
	(A)	30 / 45	(B)	15 / 20	
	(C)	20 / 15	(D)	5 / 10	

27	Signal sighting committee comprises of _____.				(B)
	(A)	TI, LI, PWI	(B)	LI, SI, TI	
	(C)	LI, PWI, SI	(D)	SS, LI, TI	
28	Signal sighting committee will go on foot plate inspection once in _____ months				(A)
	(A)	3	(B)	2	
	(C)	4	(D)	5	
29	Calling ON signal cannot be taken "OFF" during _____ failure.				(C)
	(A)	Signal	(B)	Track	
	(C)	Point	(D)	Block instrument	
30	When Shunting Permitted Indicator is defective, _____ is the authority for the LP				(A)
	(A)	T/3693(b)+PHS	(B)	T/409	
	(C)	T/512	(D)	PHS	
31	Co-acting signals are also known as _____ signals.				(A)
	(A)	Duplicating	(B)	Repeating	
	(C)	Calling on	(D)	All of the above	
32	_____ type of signal will not show any light in any position at any time				(A)
	(A)	Banner type repeating	(B)	Calling ON	
	(C)	Co acting	(D)	All of the above	
33	Route indicators are treated as _____				(B)
	(A)	Permissive	(B)	Stop signals	
	(C)	Supplicating	(D)	Repeating	
34	Route indicators are of _____ types and they are _____				(A)
	(A)	multiple, stencil, Junction	(B)	2,colourlight, semaphore	
	(C)	All of the above	(D)	None of the above	
35	Block Section Limit Board is provided at _____ station with _____ signals where the first point is a trailing point or where there are _____.				(B)
	(A)	Class B, TAS, No signals	(B)	Class B, MAS, No points	
	(C)	Class A,TAS, No signals	(D)	None of the above	
36	Outlying siding points are identified by _____ mark board.				(B)
	(A)	P	(B)	S	
	(C)	IB	(D)	G	
37	A signal which is taken "OFF" for a train will be put to "ON" position only to _____ when information about engine failure is received.				(B)
	(A)	Issue emergency caution order	(B)	Avert accident	
	(C)	give precedence to other train	(D)	None of the above	
38	_____ no. of detonators shall be placed at a distance of _____ meters from the obstruction in Automatic Block System to stop a train "Out of Course".				(B)
	(A)	3, 120	(B)	2 , 180	
	(C)	1, 120	(D)	None of the above	
39	In automatic section and signal protecting points and gate, when level crossing gate is either opened or failed and points set for mainline and locked _____ lamp will lit on signal post.				(A)
	(A)	AG marker	(B)	A marker	
	(C)	Both A & B	(D)	None of the above	

40	When there is a falling gradient of _____ towards station section the provision of catch siding is compulsory.				(B)
	(A)	1 in 100	(B)	1 in 80	
	(C)	1 in 200	(D)	1 in 150	
41	When there is a falling gradient of _____ towards block section the provision of slip siding is compulsory.				(A)
	(A)	1 in 100	(B)	1 in 80	
	(C)	1 in 200	(D)	1 in 150	
42	Whenever points / signals / block instrument is disconnected by SI/ ESM, SM shall ensure that is _____ given by SI / ESM.				(B)
	(A)	Re connection notice	(B)	Disconnection notice	
	(C)	Both A & B	(D)	None of the above	
43	When the disconnected signal / point is reconnected, SM shall test _____ no. of times.				(B)
	(A)	Twice	(B)	Thrice	
	(C)	Once	(D)	None of the above	
44	A green flag by day and a white light by night moved vertically as high and as low as possible indicates _____				(B)
	(A)	Train stalling	(B)	Train parting	
	(C)	Shunting	(D)	None	
45	Violently waving a white light horizontally across the body of a person indicates _____.				(C)
	(A)	Proceed	(B)	Go slowly	
	(C)	Stop dead	(D)	None	
46	Give one example of indicative accident.				(B)
	(A)	Loss of human life	(B)	Passing signal at ON	
	(C)	Collision	(D)	Fire on train	
47	If automatic section, if ‘A’ and ‘AG’ marker lights lit together or not lit, the corresponding signal to be treated as _____.				(B)
	(A)	Automatic signal	(B)	Manual stop signal	
	(C)	Automatic gate signal	(D)	None of the above	
48	Testing of detonator shall be done by moving an empty wagon at a speed of _____ kmph.				(D)
	(A)	10	(B)	12	
	(C)	15	(D)	8	
49	After testing the detonator, the life can be increased for one year subject to a maximum of _____ extensions.				(C)
	(A)	4	(B)	5	
	(C)	3	(D)	7	
50	After rear SLR, _____ no. of coaches can be attached excluding one inspection carriage other than Londa-Vasco section.				(B)
	(A)	3	(B)	2	
	(C)	1	(D)	4	
51	When loco pilot passes automatic signal at ON, speed should not exceed _____ KMPH even if the subsequent signal is OFF.				(C)
	(A)	10	(B)	30	
	(C)	15	(D)	Driver’s discretion	

52	The knowledge of the staff that is required to use detonators shall be tested by the testing officials once in _____ months				(A)
	(A)	3	(B)	4	
	(C)	5	(D)	6	
53	If the night petrol man does not turn up even after _____ minutes beyond the schedule arrival time, SM shall stop all the trains and issue caution order restricting the speed to _____ kmph.				(A)
	(A)	15, 40	(B)	15, 25	
	(C)	20, 15	(D)	30 , 45	
54	Pre-warning about defective reception signal is not required when there is _____ signal provision or when _____ is provided.				(B)
	(A)	Repeating- clamping	(B)	Calling ON-telephone	
	(C)	Co acting-VHF	(D)	None	
55	When Home is defective and pre-warning is given, the train shall admitted by _____				(D)
	(A)	Taking off Calling ON	(B)	taking off Shunt signal	
	(C)	Taking off co-acting signal	(D)	Piloting	
56	When train is received on Calling-ON, in Podanur panel, Calling-on cancellation takes _____ seconds.				(B)
	(A)	220	(B)	240	
	(C)	150	(D)	120	
57	When LP passes starter at "ON" partly and stopped before Advanced starter subsequently line clear is taken _____ will be given				(D)
	(A)	T/369 3(b)	(B)	taking off LSS	
	(C)	Restarting memo counter signed by TMR	(D)	All of the above	
58	Whenever colour light signal is flickering / bobbing and does not pickup a steady aspect at least for _____, the signal shall be treated as defective.				(A)
	(A)	60 seconds	(B)	120seconds	
	(C)	180 seconds	(D)	None	
59	Signal warning board is located at a distance of _____ meters before a stop signal.				(C)
	(A)	1500 meters	(B)	1200 meters	
	(C)	1400 meters	(D)	None	
60	The LP and Guard will be given _____ no. of LR trips to work in Ghat area.				(C)
	(A)	3	(B)	2	
	(C)	6	(D)	None	
61	Gate-cum-Distant signal will be located at a distance of _____ meters before the gate.				(B)
	(A)	120	(B)	180	
	(C)	240	(D)	None	
62	"G" marker on a gate signal is eliminated when there is a _____ between Gate stop signal and gate.				(B)
	(A)	Gate	(B)	Bridge	
	(C)	Points	(D)	None	
63	The speed of train on 1 in 81/2 turn out is _____ kmph.				(B)
	(A)	8	(B)	10	
	(C)	15	(D)	None	

64	The speed of goods train while entering into goods terminal yard is restricted to _____ KMPH.				(C)
	(A)	8	(B)	10	
	(C)	15	(D)	None	
65	When a signal is newly erected or shifted, it shall be jointly inspected by _____				(A)
	(A)	SI, TI & LI	(B)	PWI, TI & SI	
	(C)	PWI, TI & LI	(D)	None	
66	When a signal is newly erected or shifted, caution order shall be given for a period of _____ days.				(B)
	(A)	8	(B)	90	
	(C)	15	(D)	None	
67	At station where there is common Home or at station where there are no starters, _____ is required.				(A)
	(A)	Point indicators	(B)	Shunt signals	
	(C)	Co-acting signals	(D)	None	
68	ODC shall be allowed to be attached by a train for transport only with the prior sanction of _____				(A)
	(A)	COM/CRS	(B)	DRM/DOM	
	(C)	DME/DEE	(D)	None	
69	Speed of a Class “C” ODC by day shall be _____ KMPH in BG / MG.				(A)
	(A)	25/15	(B)	45/30	
	(C)	20/10	(D)	75/15	
70	When class “C” ODC is attached by a train, and shall proceed _____ as a escort.				(B)
	(A)	SLI, TI, SI	(B)	TXR, TI, PWI	
	(C)	PA, LI, STENO	(D)	None	
71	Speed of Class “B” ODC on BG shall not exceed _____ KMPH.				(A)
	(A)	40	(B)	25	
	(C)	15	(D)	None	
72	When engine pushing a train and guard is travelling in brake van, which is leading, the speed shall not exceed _____ kmph and when guard is not travelling in leading vehicle, the speed shall not exceed _____ kmph.				(B)
	(A)	15/10	(B)	25/8	
	(C)	40/25	(D)	None	
73	When engine pushing is permitted, reception shall be made on single line by _____				(A)
	(A)	Taking off signals	(B)	Piloting	
	(C)	Hand signals	(D)	None	
74	In emergency a goods train without brake van or without guard is ordered by _____				(A)
	(A)	Sr DOM	(B)	COM	
	(C)	CEE	(D)	None	
75	Running of goods train without brake van or without guard is strictly prohibited during _____.				(D)
	(A)	TSL	(B)	TIC	
	(C)	Winter	(D)	Both A & B	

76	In double line section when major work is in progress issue _____ KMPH speed restriction caution order to the trains on adjacent line ?				(C)
	(A)	30	(B)	75	
	(C)	50	(D)	MPS	
77	_____ number of damaged vehicles are permitted to be attached in rear of Brake van during only.				(C)
	(A)	2-night	(B)	1-night	
	(C)	1-day	(D)	None	
78	Empty / Load handle shall be kept in load position when the gross load is above _____ tones.				(C)
	(A)	45.5	(B)	44.5	
	(C)	42.5	(D)	None	
79	Within station limits where gradient is steeper than 1in 600, to detach the loco of goods train without BV _____ no. of wagons hand brakes are to be put ON.				(B)
	(A)	6	(B)	12	
	(C)	18	(D)	None	
80	To detach loco of a goods train having BOX N / BCN / BRH, etc., minimum _____ no. of vehicles hand brake are to be applied from both ends excluding BV.				(B)
	(A)	15	(B)	10	
	(C)	5	(D)	12	
81	When SM / Station staff does not exchange “all-right” signals, the LP shall give _____ engine whistle code.				(C)
	(A)	Two long	(B)	two long ,one short	
	(C)	Two short	(D)	None	
82	The BPC of a material train with UIC Bogie, airbrake stock is valid for _____ days subject to examination of the train by TXR once in _____ days				(A)
	(A)	30 – 15	(B)	15 – 5	
	(C)	25 – 10	(D)	None	
83	To dispatch the material train for working in the block section, ATP under the system of working and _____ should be given.				(A)
	(A)	Memo counter signed by Guard	(B)	Memo from PWI	
	(C)	Memo from SS	(D)	None	
84	On completion of caution order book, it shall be preserved for a period of _____ months				(A)
	(A)	12	(B)	15	
	(C)	6	(D)	18	
85	While backing a full train from one line to another via main line the shunting supervision is done by _____.				(B)
	(A)	Guard	(B)	SS	
	(C)	Pointsman	(D)	None	
86	Shunting speed of explosive and POL products shall be _____ kmph.				(C)
	(A)	10	(B)	05	
	(C)	08	(D)	None	
87	To receive a train on to an obstructed line, the LP shall be given _____ authority where there is no calling ON signal and signal post telephone.				(B)
	(A)	T/369.3(b)	(B)	T/509	
	(C)	T/512	(D)	T/511	

88	To dispatch a train from un-signalled line where tangible authority is not given as ATP, _____ authority should be given.				(A)
	(A)	T/511+PHS+ATP	(B)	T/512	
	(C)	T/409	(D)	None	
89	To start a train from a station having common starter signal, in addition to ATP _____ authority should be given.				(A)
	(A)	T/512	(B)	T/511	
	(C)	T/409	(D)	T/509	
90	_____ gradient is considered as dangerous for shunting roller bearing wagon and _____ gradient for non roller bearing wagons.				(A)
	(A)	1in400 – 1in 260	(B)	1in100 – 1in150	
	(C)	1in300 – 1in450	(D)	None	
91	Maximum Hand shunting speed is _____ kmph.				(C)
	(A)	10	(B)	15	
	(C)	5	(D)	None	
92	When “Lurch” is reported by LP, the SM shall issue caution order restricting the speed to _____ KMPH.				(A)
	(A)	10	(B)	15	
	(C)	8	(D)	None	
93	When “Lurch” is reported on double line by LP, SM shall give caution order for adjacent line, trains to proceed with _____.				(A)
	(A)	Special caution order	(B)	Memo	
	(C)	PWI	(D)	None	
94	Rail fracture of less than 30 mm, the speed of first train shall be _____ kmph, the speed of the second and subsequent trains shall be _____ kmph.				(A)
	(A)	10 – 15	(B)	25 – 8	
	(C)	15 – 40	(D)	None	
95	Rail fracture of more than 30 mm or multiple fractures, certification shall be given by _____ and above rank.				(C)
	(A)	DEN	(B)	AEN	
	(C)	SSE/P.Way	(D)	None	
96	During TIC on double line _____ is the ATP authorising the LP to proceed with a restricted speed of _____ kmph.				(A)
	(A)	T/C602-25/10	(B)	T/D609-15/8	
	(C)	T/A611-10/8	(D)	None	
97	When enquiry is made for more than one train _____ authorities are required for the light engine which is going to open communication.				(B)
	(A)	T/C 603+T/D611	(B)	T/B 602+T/E602	
	(C)	T/A602+T/G645	(D)	None	
98	When trains are dealt on T/C 602, the time interval between two trains shall be _____ minutes.				(B)
	(A)	60	(B)	30	
	(C)	45	(D)	None	
99	After opening communication _____ is ATP for the light engine to come back				(A)
	(A)	T/G602/T/H602	(B)	T/A602/T/I 609	
	(C)	T/H602/T/H 611	(D)	None	

100	If enquiry is made for more than one train and reply is also received, the second train can be allowed to go with a restricted speed of _____ kmph.				(A)
	(A)	25/10	(B)	15/8	
	(C)	10/5	(D)	None	
101	After block telephone, _____ is the authorized means of communication in absolute block system.				(B)
	(A)	VHF	(B)	Station to station fixed telephone	
	(C)	Walkie-talkie	(D)	Control	
102	Light engine, which is going for opening communication, shall proceed with a restricted speed of _____ kmph.				(B)
	(A)	25/15	(B)	15/10	
	(C)	20/8	(D)	None	
103	On T/E 602 _____ no. of trains enquiry can be made.				(A)
	(A)	More than one	(B)	Less than one	
	(C)	One	(D)	None	
104	Form No. of UP/DN CLCT is _____.				(A)
	(A)	T/G 602/T/H602	(B)	T/A602/T/I609	
	(C)	T/H602/T/H611	(D)	None	
105	When motor trolley / tower car is sent for opening communication, it shall be accompanied by _____				(C)
	(A)	PWI/TI	(B)	SSE.PWI/SI	
	(C)	Guard/ASM	(D)	None	
106	When goods train is dispatched on T/J 602 the speed shall not exceed _____ kmph.				(C)
	(A)	25/8	(B)	45/25	
	(C)	15/8	(D)	None	
107	_____ is the authority for trains working on TSL working.				(D)
	(A)	T/A 602	(B)	T/B 602	
	(C)	T/C 602	(D)	T/D 602	
108	If LP enters block section without authority and subsequently sends his Asst. LP with a memo to SM in rear / SM in advance that SM shall give _____ and _____.				(B)
	(A)	Signals, PLCT	(B)	PLCT, Caution order	
	(C)	Memo, Signals	(D)	None	
109	When explosion sound is heard by SM and location is not known and light engine could not be sent for testing purpose, the whole train shall be allowed to go with a restricted speed of _____ kmph.				(B)
	(A)	15	(B)	10	
	(C)	25	(D)	50	
110	In case of fire accident in a passenger train, the first objective to be achieved is _____.				(C)
	(A)	Clear the section	(B)	Detach the vehicle	
	(C)	Safety of the passengers	(D)	ask for relief	
111	The light engine which is coming on T/609 to pick up the second portion shall come with a restricted speed of _____ kmph.				(C)
	(A)	40	(B)	15	
	(C)	25	(D)	50	

112	All Guards, LPs, Asst. LPs, Motor men who are required to work in automatic block system shall undergo one day intensive training, a certificate shall be given once in _____ months.				(C)
	(A)	12	(B)	5	
	(C)	6	(D)	36	
113	The minimum equipment of fixed signals in automatic system on SL shall be _____ and _____ signals.				(B)
	(A)	Distant-Home	(B)	Automatic-Semi automatic	
	(C)	Home-LSS	(D)	Outer-Home	
114	When LSS failed on SL automatic block system _____ is the ATP for the train and the first train, which shall go with a restricted speed of _____ kmph.				(A)
	(A)	PLCT,25	(B)	T/602,15	
	(C)	T/A602,45	(D)	None	
115	In automatic block system single line, when LSS fails, _____ authority is given to the Loco Pilot.				(A)
	(A)	PLCT&T/A 912	(B)	T/D912	
	(C)	T/C912	(D)	T/P912	
116	During prolonged failed of signals on double line the _____ authority given in automatic signalling which authorizes the LP to go a restricted speed of _____ kmph.				(B)
	(A)	T/A912,30	(B)	T/D912,25	
	(C)	T/C912,45	(D)	T/B912, 60	
117	When signals and communication fails on double line, the authority given to the LP is _____				(A)
	(A)	T/B912	(B)	T/C912	
	(C)	T/D912	(D)	T/A912	
118	The time interval between two trains during signal and communication failure on DL shall be _____ minutes.				(C)
	(A)	30	(B)	25	
	(C)	15	(D)	45	
119	When flat tyre noticed, clear the section with _____ KMPH speed restriction.				(D)
	(A)	MPS	(B)	40	
	(C)	50	(D)	30	
120	During TSL working in automatic section the first train proceeding on right line when signal and communication are working shall proceed on _____ authorities.				(B)
	(A)	T/D 912	(B)	PLCT+T/A912	
	(C)	T/C912	(D)	T/B912	
121	During TSL working when signals and communication are working the second and sub-sequent train proceeding on right line shall proceed on _____.				(C)
	(A)	Cautiously	(B)	Whistling	
	(C)	Signal aspects	(D)	Written memo	
122	When train meets with an accident in automatic block system on DL and the adjacent line is obstructed, the adjacent line shall be protected as per _____ rule.				(D)
	(A)	GR6.06	(B)	GR6.12	
	(C)	GR6.09	(D)	GR 6.03	

123	In Automatic block system when the train is unable to proceed further due to accident or obstructed or due to the failure of loco, the Guard shall protect the train in rear by placing one detonator at _____ meters and two detonators at _____ meters from the point of obstruction.				(A)
	(A)	90, 180	(B)	120, 150	
	(C)	150, 300	(D)	120, 180	
124	To stop of a train out of course in automatic block system _____ no. of detonators are placed at _____ meters from the end of platform in direction of the train.				(B)
	(A)	3, 120	(B)	2, 180	
	(C)	1, 120	(D)	4, 600	
125	In automatic block system to dispatch a relief loco / train into the occupied block section _____ is given as the ATP for the relief loco / train.				(C)
	(A)	T/A 912	(B)	T/B 912	
	(C)	T/C912	(D)	T/D912	
126	In automatic block system Relief loco / train shall proceed with a restricted speed of _____ kmph.				(D)
	(A)	25/15	(B)	45/25	
	(C)	60/30	(D)	15/10	
127	After stopping at the stop indicator, LP shall sign in the ER-7 book and proceed with _____ kmph.				(C)
	(A)	15	(B)	20	
	(C)	10	(D)	25	
128	“W/L” board before level crossing shall be provided at distance of _____ metres				(A)
	(A)	600	(B)	1200	
	(C)	1300	(D)	1600	
129	When water over tops the rail shall certify by _____ walking over and probing that the track is safe and allow the train to go at a speed not exceeding _____ Kmph.				(A)
	(A)	PWI,8	(B)	DEN,15	
	(C)	Sr.DEN, 20	(D)	Sr.DOM,30	

Rajbasha / Official Language

1	What is the Official Language of Union of India?				(A)
	(A)	Hindi in Devnagari Script	(B)	Hindi in Sanskrit Script	
	(C)	Hindi	(D)	None	
2	On which date Part XVII of the Constitution was passed in Parliament?				(B)
	(A)	19.09.1947	(B)	14.09.1949	
	(C)	14.07.1949	(D)	19.07.1947	
3	When was Official Language Act 1963 passed?				(A)
	(A)	10.05.1963	(B)	10.05.1967	
	(C)	15.05.1963	(D)	15.05.1967	
4	When was Official Language Act 1963 amended?				(A)
	(A)	1967	(B)	1963	
	(C)	1947	(D)	1965	
5	When is “Hindi Day” celebrated every year?				(D)
	(A)	September04th	(B)	September24th	
	(C)	November14th	(D)	September14th	
6	According to Official Language Rules, under which region Andaman & Nicobar Islands come under				(A)
	(A)	Region A	(B)	Region B	
	(C)	Region C	(D)	None	
7	According to Official Language Rules, which state comes under Region “A”				(C)
	(A)	Maharashtra	(B)	Punjab	
	(C)	Haryana	(D)	Arunachal Pradesh	
8	What is the Official Language of Arunachal Pradesh ?				(C)
	(A)	Bodo	(B)	Hindi	
	(C)	English	(D)	Sindhi	
9	The official Languages act 1963, section3 takes effect from?				(B)
	(A)	26thJanuary,1963	(B)	26thJanuary,1965	
	(C)	25thJanuary,1963	(D)	25thJanuary, 1965	
10	In which part of the Constitution are the Articles 343-351 that give information about Official Language available ?				(A)
	(A)	Part XVII	(B)	Part XVIII	
	(C)	Part XIV	(D)	Part XVI	
11	Maximum how many Artists can participate in Hindi Drama Competitions?				(D)
	(A)	5Artists	(B)	10Artists	
	(C)	20Artists	(D)	15 Artists	
12	How many inspections in a month are mandatory for Raj Bhasha Adhikari of Railways				(A)
	(A)	One	(B)	Three	
	(C)	Two	(D)	Five	
13	According to Official Language Rules which state coming under “B” region				(A)
	(A)	Maharashtra	(B)	Jammu & Kashmir	
	(C)	Jharkhand	(D)	Nagaland	

14	At present how many languages are enlisted in the Eighth Sch. of the constitution?				(C)
	(A)	18	(B)	20	
	(C)	22	(D)	21	
15	In which article is the provision regarding OL policy available in Part V of the constitution?				(B)
	(A)	Article-210	(B)	Article-120	
	(C)	Article-344	(D)	Article-343	
16	In which order Name, Designation and Sign Boards are to be exhibited?				(D)
	(A)	Trilingual (Hindi, Regional & English)	(B)	Trilingual (English, Regional & Hindi)	
	(C)	Trilingual (Regional, English & Hindi)	(D)	Trilingual (Regional, Hindi & English)	
17	When was the Official Language Rules passed?				(B)
	(A)	1967	(B)	1976	
	(C)	1963	(D)	1965	
18	How many articles are there in Part-XVII of the Constitution?				(D)
	(A)	7	(B)	6	
	(C)	8	(D)	9	
19	In compliance of article 344 when was the Official Language Commission formed?				(B)
	(A)	1950	(B)	1955	
	(C)	1956	(D)	1949	
20	Who was the First Chairman of the Official Language Commission?				(B)
	(A)	Sri G.B.Pant	(B)	Sri.B.G.Kher	
	(C)	Sri. Lalith Narayan Mishra	(D)	Sri.Nanda Kumar	
21	Who was the First Chairman of the committee which was formed on there commendation of the Official Language commission?				(A)
	(A)	Sri G.B.Pant	(B)	Sri B.G.Kher	
	(C)	Sri Lalith Narayan Mishra	(D)	Sri Nanda Kumar	
22	As per the Constitution, who is translating the statutory rules, regulations and orders?				(D)
	(A)	Home Ministry	(B)	Finance Ministry	
	(C)	Prime Ministry	(D)	Law Ministry	
23	Which Official Language Rule mentions about the Proficiency of Hindi of the Officer/Employee				(A)
	(A)	Rule-09ofOfficialLanguageRule1976	(B)	Rule-06 of Official Language Rule 1976	
	(C)	Rule-10 of Official Language Rule 1976	(D)	Rule-08 of Official Language Rule 1976	
24	Which Article comes under Part VI?				(A)
	(A)	Article-210	(B)	Article-120	
	(C)	Article-344	(D)	Article-343	
25	Who chaired the first Railway Hindi Salahkar Samiti constituted in 1973 ?				(C)
	(A)	Sri G.B.Pant	(B)	Sri B.G.Kher	
	(C)	Sri Lalith Narayan Mishra	(D)	Sri Nanda Kumar	
26	Communication from central govt office to a state or Union territory in region “C” or to any office or person in such state shall be in _____				(A)
	(A)	English	(B)	Hindi	
	(C)	Hindi and English	(D)	Hindi or English	

27	In which year the Hindi translation of Railway Budget was prepared by the Railway Minister?				(C)
	(A)	1950	(B)	1955	
	(C)	1956	(D)	1949	
28	In which year Hindi (Parliament) section was established in Railway Board?				(D)
	(A)	1950	(B)	1955	
	(C)	1956	(D)	1960	
29	What are the States/Union territories that comes under Region "A"				(D)
	(A)	Bihar	(B)	Punjab	
	(C)	Chhattisgarh	(D)	A & C	
30	What are the States/Union territories that come under Region "C" ?				(A)
	(A)	Sikkim	(B)	Daman & Diu	
	(C)	Andaman & Nicobar	(D)	Union Territory of Chandigarh	
31	Article 120 related to _____				(A)
	(A)	Language to be used in Parliament	(B)	Language to be used in the Legislature	
	(C)	Official Language of the union	(D)	Official languages of the state	
32	Article 210 related to _____				(B)
	(A)	Language to be used in Parliament	(B)	Language to be used in the Legislature	
	(C)	Official Language of the union	(D)	Languages to be used in supreme court and in the high courts and for acts bills etc	
33	What is the expansion for OLIC used by Dept. of Official Language?				(B)
	(A)	Official Language Improvement Committee	(B)	Official Language Implementation Committee	
	(C)	Official Language Implement Committee	(D)	Official Language Implementation Commission	
34	How many Hindi courses are prescribed for Central Govt. Employees?				(C)
	(A)	2	(B)	3	
	(C)	4	(D)	5	
35	Which is the elementary Hindi course prescribed for Central Govt. Employee				(B)
	(A)	Praveen	(B)	Prabodh	
	(C)	Parangat	(D)	Pragya	
36	Who is the Chairman of Central Hindi Committee?				(C)
	(A)	Home minister	(B)	Finance Minister	
	(C)	Prime Minister	(D)	Defence minister	
37	When was the present Parliamentary Committee on Official Language constituted?				(B)
	(A)	1967	(B)	1976	
	(C)	1968	(D)	1949	
38	How many members are there in the Committee of Parliamentary on Official Language?				(C)
	(A)	33	(B)	25	
	(C)	30	(D)	20	
39	At present, how many Sub-Committees are there in the Parliamentary Committee on Official Language?				(C)
	(A)	6	(B)	5	
	(C)	3	(D)	2	

40	Article 344 related to				(D)
	(A)	Directives for development of Hindi language	(B)	Languages to used in Parliament	
	(C)	Languages to be used in supreme court and in the high courts and for acts bills etc	(D)	Commission and Committee of parliament on official Languages	
41	Who is the Chairman of the Town Official Language Implementation Committee constituted in major cities?				(C)
	(A)	DRM	(B)	ADRM	
	(C)	Senior most Central Govt. Officer of the city	(D)	Division Raja Bhasha Adhikari	
42	What is the periodicity of the meeting of Town Official Language Implementation Committee?				(A)
	(A)	Once in 6 months	(B)	Once in 12 months	
	(C)	Twicein6months	(D)	3timesin12Months	
43	Who prepares the Annual Programme on Official Language?				(D)
	(A)	Ministry of Finance Affairs.	(B)	Ministry of Human Resource	
	(C)	Ministry of Urban development	(D)	None	
44	What are the Hindi courses prescribed for Central Govt. Employees?				(B)
	(A)	Prabodh, Praveen & Pragya	(B)	Prabodh, Praveen, Pragya & Parangat	
	(C)	Prabodh, Pragya & Parangat	(D)	Prabodh, Praveen & Parangat	
45	Which is the final Hindi course prescribed for Clerical cadre employees of Central Govt.?				(C)
	(A)	Praveen	(B)	Prabodh	
	(C)	Parangat	(D)	Pragya	
46	What are the training facilities available to a Central Govt. employee to get trained in the Hindi courses?				(C)
	(A)	Intensive, Correspondence and Private	(B)	Regular, Intensive and Private	
	(C)	Regular, Intensive, Correspondence and Private	(D)	Regular, Intensive, Correspondence	
47	How many times the Regular Hindi exams are conducted in a year?				(A)
	(A)	2	(B)	3	
	(C)	4	(D)	1	
48	In which months Regular Hindi examinations are conducted?				(A)
	(A)	May and November	(B)	June and December	
	(C)	June and August	(D)	July and November	
49	When was first time ‘World Hindi Day’ is observed?				(D)
	(A)	10 November, 2006	(B)	10 January,2016	
	(C)	10 January,2005	(D)	10 January,2006	
50	Name the newly introduced course in Hindi by Hindi Teaching Scheme				(C)
	(A)	Praveen	(B)	Prabodh	
	(C)	Parangat	(D)	None	

51	Who are all the employees classified under Category "A"?				(C)
	(A)	Those employees whose mother tongue is Urdu or Hindustani or its dialect	(B)	Those employees whose mother tongue is English or Hindustani or its dialect	
	(C)	Those employees whose mother tongue is Hindi or Hindustani or its dialect	(D)	Those employees whose mother tongue is Urdu, Punjabi, Kashmiri, Pusto, Sindhi or other allied languages	
52	Section 3 of Official Language Act 1963 came into force on				(A)
	(A)	26 January 1965	(B)	28 February 1965	
	(C)	26 January 1966	(D)	26 January 1964	
53	Which of the following is the correct English word for मंडलरेलप्रबंधक				(B)
	(A)	GM	(B)	DRM	
	(C)	ADRM	(D)	AGM	
54	Which Official Language Rule mentions about the Working knowledge of the Officer / Employee ?				(C)
	(A)	Rule-09 of Official Language Rule1976	(B)	Rule-11 of Official Language Rule1976	
	(C)	Rule-10 of Official Language Rule1976	(D)	Rule-12 of Official Language Rule1976	
55	From which course a category "C" employee required to be trained				(A)
	(A)	Praveen	(B)	Prabodh	
	(C)	Parangat	(D)	None	
56	From which course a category employee required to be trained?				(B)
	(A)	Praveen	(B)	Prabodh	
	(C)	Parangat	(D)	Pragya	
57	What is the Lump sum Award for passing Pragya?				(C)
	(A)	2500	(B)	2600	
	(C)	2400	(D)	None	
58	Which of the following is the correct English word for महाप्रबंधक				(A)
	(A)	GM	(B)	DRM	
	(C)	AGM	(D)	ADRM	
59	In which order the forms used by Public are to be prepared?				(D)
	(A)	Trilingual Form (1.Regional Language, 2.English, 3.Hindi)	(B)	Trilingual Form (1.English, 2.Regional Language, 3.Hindi)	
	(C)	Trilingual Form (1.Hindi, 2.English, 3.Regional Language)	(D)	Trilingual Form (1.Regional Language, 2.Hindi, 3.English)	
60	In which order Rubber Stamps are to be prepared?				(B)
	(A)	Bilingual form-one line English and one line Hindi	(B)	Bilingual form-one line Hindi and one line English	
	(C)	Regional language	(D)	Regional Language, Hindi, English	
61	Which Foreign Language included in the Eighth Schedule?				(C)
	(A)	Urdu	(B)	Punjabi	
	(C)	Nepali	(D)	None	
62	Who is the Chairman of the Divisional Official Language Implementation Committee?				(A)
	(A)	DRM	(B)	ADRM	
	(C)	Nominated officer by DRM	(D)	Divisional Raja Bhasha Adhikari	

63	Which Ministry/Office is conducting the exams for the Central Government employees?				(C)
	(A)	Hindi Teaching Scheme under Ministry of Finance Affairs.	(B)	Hindi Teaching Scheme under Ministry of Human resource	
	(C)	Hindi Teaching Scheme under Ministry of Home Affairs	(D)	Hindi Teaching Scheme under Ministry of Culture.	
64	Who is the Chairman of Town Official Language Implementation Committee (CentralGovt. offices)/Vijayawada?				(A)
	(A)	DRM	(B)	ADRM	
	(C)	Nominated officer by DRM	(D)	Divisional Raja Bhasha Adhikari	
65	In which order are the Station announcements made?				(D)
	(A)	Trilingual (Hindi, Regional & English)	(B)	Trilingual(English, Regional & Hindi)	
	(C)	Trilingual (Regional, English & Hindi)	(D)	Trilingual (Regional, Hindi & English)	
66	How the Panel Board of a train has to be displayed?				(D)
	(A)	Trilingual (Hindi, Regional & English)	(B)	Trilingual (English, Regional & Hindi)	
	(C)	Trilingual (Regional, Hindi, English)	(D)	None	
67	Who are eligible to undergo training in Hindi Conversation course?				(A)
	(A)	All the open line staff (including Class–IV)who come in contact with public directly.	(B)	All the open line staff	
	(C)	Running staff	(D)	Office staff	
68	Why training in Hindi is imparted to Central Government Officers/Employees?				(B)
	(A)	By which they can speak with officers	(B)	By which they can do their day-to-day work in Hindi.	
	(C)	By which they can speak with colleague	(D)	None	
69	What is the duration for Hindi Conversation course in Hrs?				(D)
	(A)	20	(B)	10	
	(C)	40	(D)	30	
70	Mention the name of Rajbhasha Padak awarded to Sr. Administrative Grade or Higher Officials?				(A)
	(A)	Rail Mantri Rajbhasha Rajat Padak	(B)	Lal Bahadur Shastri Award	
	(C)	Maithili Sharan Gupta Rajat Padak	(D)	Premchand Award	
71	According to Official Language Rules, Which State comes under Region B?				(D)
	(A)	Haryana	(B)	Rajasthan	
	(C)	Jharkhand	(D)	None	
72	Mention the name of the Award to be given for writing story/novel writing in Hindi by Railway Board.				(D)
	(A)	Rail Mantri Rajbhasha Rajat Padak	(B)	Lal Bahadur Shastri Award	
	(C)	Maithili Sharan Gupta Award	(D)	Premchand Award	

73	Mention the name of the Award to be given for writing the book of Hindi poems, by the Railway Board.				(C)
	(A)	Rail Mantri Rajbhasha Rajat Padak	(B)	Lal Bahadur Shastri Award	
	(C)	Maithili Sharan Gupta Award	(D)	Premchand Award	
74	What is the Cash Award given under Kamalapati Tripathi Rajbhasha Swarna Padak?				(A)
	(A)	15000	(B)	1000	
	(C)	100000	(D)	1000000	
75	What is the main duty of the Committee of Parliament on Official Language?				(A)
	(A)	To review the progressive use of Hindi	(B)	To review the progressive use of Hindi and English	
	(C)	To review the progressive use of Hindi and state official languages	(D)	To review the progressive use of English	
76	World “Hindi Day celebrated every year on?				(B)
	(A)	11th January	(B)	10th January	
	(C)	12th January	(D)	14th September	
77	What are the four languages that were added to the list of 18 languages of the Eighth Schedule?				(D)
	(A)	Bodo, Dogri, Maithili & Nepali	(B)	Bodo, Sindhi, Maithili &Santhali	
	(C)	Kashmiri, Dogri, Maithili &Santhali	(D)	Bodo, Dogri, Maithili & Santhali	
78	Nepali Language is the State Language of which state?				(A)
	(A)	Sikkim	(B)	Bihar	
	(C)	Chhatisgarh	(D)	Himachal Pradesh	
79	The Committee on Official Language consist of members from Lok Sabha				(D)
	(A)	15	(B)	25	
	(C)	10	(D)	None	
80	The report of committee on official language is submitted to the _____				(B)
	(A)	Speaker of Lok Sabha	(B)	President	
	(C)	Vice President	(D)	Chief Justice of India	
81	The Official Language Rules 1976, is applicable on entire country except one State? Which is that State?				(B)
	(A)	Kerala	(B)	Tamilnadu	
	(C)	Tripura	(D)	Andhra Pradesh	
82	What is the Lump sum amount given to Praveen examination of Hindi Teaching Scheme?				(C)
	(A)	1600	(B)	2400	
	(C)	1500	(D)	2000	
83	Article 351 related to _____				(A)
	(A)	Directives for development of Hindi language	(B)	Languages to be used in Parliament	
	(C)	Languages to be used in supreme court and in the high courts and for acts bills etc.,	(D)	Commission and Committee of parliament on official Languages	

84	Article 348 related to _____				(C)
	(A)	Directives for development of Hindi language	(B)	Languages to be used in Parliament	
	(C)	Languages to be used in supreme court and in the high courts and for acts bills etc.,	(D)	Commission and Committee of parliament on official Languages	
85	According to Official Language Rules, Which States comes under Region C				(C)
	(A)	Andhra Pradesh & Gujarat	(B)	Manipur & Punjab	
	(C)	West Bengal &Meghalaya	(D)	None	
86	Which is the only Union Territory classified under Region B?				(D)
	(A)	Pondicherry	(B)	Daman & Diu	
	(C)	Andaman & Nicobar	(D)	Chandigarh	
87	According to Official Language Rules Which States comes under Region A?				(D)
	(A)	Haryana & Mizoram	(B)	Bihar & Meghalaya	
	(C)	Rajasthan & Maharashtra	(D)	Madhya Pradesh & Himachal Pradesh	