

ALCO LOCOMOTIVE

ID	Question	Answer
1	In extended DB locos _____ relay will energise at 21.5 kmph and less.	EDBR
2	If Battery Ammeter shows over charging due to defective battery, the following action is to be taken _____ ?	BS to be open
3	In AC/DC loco if _____ breaker trips battery ammeter will show zero.	MB1
4	_____ & _____ are the reason for battery ammeter showing ZERO?	Battery Switch Open or MB1 tripped
5	If there is any short circuit in BKT motoring coil _____ breaker will trip when throttle is opened to first notch.	MFPB
6	If radiator fan is not working during continuous hot engine alarm _____ breaker is to be switched on.	ERF
7	If ECC is short circuited _____ Breaker will trip.	FPB
8	In Medha microprocessor loco DID will become blank if _____ breaker trips	MPCB
9	In medha microprocessor loco _____ is the only additional breaker provided when compared with conventional loco	MPCB
10	Throttle will not respond if _____ breaker trips	MCB
11	In w.w. governor loco if amphenol plug is disconnected on run _____ will not respond	throttle
12	In AC - DC WW Governor locos if _____ Relay is de-energised ERR also will de-energise.	DMR
13	If A9 emergency is applied _____ operates and engine comes to idle .	PCS2
14	During running if BP drops due to D1 emergency operation , _____ operates.	P2
15	During MU operation trailing loco's both MCB should be kept in _____ position.	OFF
16	If MCBG power breaker tripped on run engine will	Shutdown
17	During cranking if MCBG power breaker is in tripped condition engine will not.	FIRE
18	Before switching ON LWS Emergency Switch _____ is to be ensured.	Water Level
19	In w.w. Governor Loco provided with MUSD relay, during cranking if MUSD is in stop position engine will not	crank
20	In AC - DC loco if CKC is not picking up _____ Contactors will not pick up.	Cranking
21	In AC - DC locos, during cranking if _____ Contactor is not picking up AG will overload	CK1
22	In AC - DC loco during cranking _____ and _____ will work as starting motors.	EG & AG

23	Loco should not be cranked without pre-lubrication if it is shut down for more than _____ Hours	48 hours
24	In AC - DC loco during cranking if GR2 is in tripped position engine will not	Crank
25	In ww governor loco provided with MUSD 'R' if MUSD switch is kept in stop position during cranking engine will not.	crank
26	If engine is not cranking _____ switch is to be checked in nose compartment?	Battery Knife Switch
27	LLOB tripping is set in Idle at _____ pressure .	1.3 kg/sq.cm.
28	LLOB tripping is set in 8th notch at _____ pressure.	3.5 kg/sq.cm.
29	In WW Governor locomotive during running in 8th notch, if lube oil pressure drops below 3.5 kg/cm ² _____ safety device will operate .	LLOB
30	If LWS is operated, engine comes to _____.	Shutdown
31	If LWS is operated, _____ indication is displayed.	Hot engine
32	If engine is shutting down without indication _____ safety devices may be the reasons.	OSTA
33	If engine is shutting down with indication _____ safety devices may be the reasons.	LLOB or LWS
34	If engine rpm exceeds its limit _____ will operate.	OSTA
35	If OSTA trips engine will comes to	Shut down
36	Starting ground occurs due to earth fault in _____ Circuit.	Control circuit
37	LLOB is provided in _____ governor.	Woodward
38	In MCBG Gov.locos when hauling power is affected _____ switch should be operated.	BAP bypass switch
39	Before wedging _____ Contactor opening of cranking contactors should be ensured	GFC
40	If CK-2 is energized on run _____ will not respond.	Loadmeter
41	In w.w. gov. loco if tacho generator fails _____ will not respond.	Load meter
42	In AC/DC loco if CK3 N/C interlock is defective _____ contactor will not pick up.	GF
43	 will not take place when GF contactor is packed.	Parallel transition
44	During earth fault in _____ TMs, power ground can not be isolated by isolating traction motors.	1,2,3
45	If GR1 is in operated condition _____ & _____ Will not respond	TH & Load meter
46	In Medha version III microprocessor loco De rating of power will start when TANGI value reaches more than _____ Amps.	0.4
47	In Medha version 2 microprocessor locos, isolation of TMs is done through	Toggle switches
48	In Medha version 3 microprocessor locos, isolation of TMs is done through	DID panel

49	In Medha version III microprocessor loco full power cut off and engine idling will take place when TANGI value reaches _____ Amps.	0.9
50	In medha microprocessor loco if water temperature is _____ Degree centigrade full power will be cut off.	95
51	In AC - DC loco During DB if _____ relay energises DB will cut off.	GR1
52	During D.B. in AC - DC loco's _____ power contactors will not pick up.	P2,P22,S21,S31
53	In single BKT/reversor loco _____ power contactors will not pick up during DB.	S21,S31,P22,P2
54	DB should not be used if _____ blower motor is not working during DB	BKBL
55	DB should not be used if _____ relay energises during DB in AC/DC loco.	GR 1
56	BKBL is getting current from	Current Developed by TM During DB
57	Dynamic Braking grids are getting current from	TM
58	If radiator fan is not working due to defective TS1 and TS2, put 'ON' _____ and work further	ERF
59	If R1 and R2 contactors are not picking up during hot engine alarm switch ON _____ and work	ERF
60	If ETS operated , engine RPM will _____.	Not be affected
61	If ETS is operated , _____ indication is displayed.	Hot engine
62	No. of Transition in AC/DC loco is/are	1
63	S21 contactor is connected between _____ TMs.	3&6
64	If there is no control air pressure _____ will not pick up.	power contactors
65	During parallel transition if P32 power contactor is not picking up _____ traction motor will not work	2nd
66	If P32 contactor is not picking up _____ will not work.	TM 2
67	In WDM3A loco FTTM blower cools the _____ traction motors.	1,2,3
68	In WDM3A loco RTTM blower cools the _____ traction motors.	4,5,6
69	The radiator fan rotates at _____ differential speeds.	2
70	ECC is located in _____ Room	Radiator room
71	Fuel Pump Motor is located in	compressor Room
72	BKBL is located in	Nose compartment
73	In Medha version III microprocessor MU loco to cut off power of trailing loco _____ switch should be used.	power settor switch

74	Battery knife switch of WDG3A loco is located at	Nose compartment
75	If turbo is surging, _____throttle to work further.	reduce
76	To check exact level of compressor oil ,engine should be _____.	Shutdown
77	To check engine sump level, engine notch should be_____.	idle
78	In engine crank case, if positive pressure increases more than its limit_____gets operated .	Explosion door
79	Horse power of WDM3D locomotive is _____.	3300HP
80	In ALCO locos OSTA is located at	Engine Right side free end
81	Fuel booster pump is protected from overload by	relief valve
82	In fuel oil system if relief valve is struck up in open position _____ will not build up.	FOP
83	If any one FIP is locked _____ will be experienced.	low hauling power/low BAP
84	Minimum fuel oil balance required to work a passenger train with WDM3A loco is	1000+Trip ration +10% of Trip ration
85	Fuel oil tank capacity in WDP4D loco is.	5000lts.
86	In WDG-3A loco fuel oil primary filter is located at	compressor room
87	In ALCO Locos _____ Will create vacuum in engine crank case.	CCEM
88	Working of copressor lube oil pump is indicated by	Projection of brass spindle
89	If inlet valve of HP cylinder is struck up in closed position will blow continuously.	inter cooler safety valve
90	compressor crank case vacuum is maintained by	breather valve
91	If radiator room door is open will be experienced.	Hot engine alarm
92	The turbine is rotated by the.	exhaust gas
93	The super charged air in the air manifold is called	Booster air pressure
94	In the after cooler, the air is cooled by	cooling water
95	In pure air brake locos, conjuncional brakes will comes due to _____valve .	Distributor
96	SP1 switch is provided for _____ charging of BP .	Quick
97	In working control stand A9 coc should be kept in _____ position .	Open
98	In non-working control stand A9 COC should be kept in _____ position.	Close
99	During A9 emergency BP becomes _____	Zero
100	During A9 emergency BC becomes _____.	1.8 kg/cm2
101	On run,if BP drops to_____pressure due to other than A-9 operation, auto flasher lights will operate.	4.4 kg/sq.cm.

102	In pure air brake locos, after releasing A9, if conjunctonal brakes are not getting released then conjunctonal brakes can be released through _____.	Manual quick release
103	If A9 emergency is applied, engine comes to _____.	Idle
104	In pure air brake locomotives, to nullify the conjunctonal brakes temporarily _____ has to be operated.	Foot pedal
105	In MU, lead loco 3/4" BP coc position should be _____.	Open
106	In MU, trail loco 3/4" Bp coc position should be _____.	Close
107	Foot pedal is provided to release _____brakes.	Conjunctonal
108	In banker loco, for BP formation 3/4" BP coc should be in _____ position.	Close
109	During A9 release position BP should be _____.	5 kg/sq.cm.
110	If MR pressure is dropping due to EPG MV malfunctioning, _____COC should be closed .	EPG
111	After closing the EPG COC if MR rises above 10 kg/cm2 _____drain cocks to be opened partially.	MR
112	In banker loco , MU2B position should be _____position.	Lead
113	While applying independent brakes in ALCO loco the brake cylinder pressure will be _____kg/cm2 .	3.5
114	During conjunctonal brakes the brake cylinder pressure will be _____kg/cm2.	1.8
115	In pure air brake locos A9 has _____positions _____.	5
116	In pure air brake locos SA9 has _____no of positions.	2
117	When A9 is applied to emergency position BP pressure becomes _____.	Zero
118	If C3W distributor valve G/P handle is placed wrongly in passenger formation _____application of loco brakes occur.	Late or delayed
119	If C3W distributor valve G/P handle is placed wrongly in goods formation, wheel _____takes place.	skidding
120	MR safety valve is set at _____.	10.5 kg/sq.cm.
121	Conjunctonal brake cylinder pressure is adjusted in _____valve.	Limiting
122	During application of SA9, if BC pressure is more than 3.5 kg/cm2 then adjust _____feed valve.	SA9
123	Feed valve setting pressure in auxiliary reservoir gauge is _____.	6 kg/sq.cm.
124	For working of pneumatic power contactors, Control air pressure is set by _____reducing valve.	N1
125	Purpose of air dryer is to drain out _____.	Moisture

126	EPG will maintain main reservoir air at _____ pressure.	8-10 kg/sq.cm
127	Compressor Efficiency test is conducted by using _____ mm test rig.	7.5
128	MR pressure loading and unloading is done by Governor	EPG
129	Sensitivity of DV is	0.6 kg/cm ² in 06 sec
130	In Sensitivity of DV is	0.3 kg/cm ² in 60 sec
131	In an air brake train when BP is dropped _____ will connect to brake cylinder for brake application.	Aux Reservoir
132	Brake cylinder equalizing pipe is charged through _____ valve.	F1 selector valve
133	In IRAB1 brake system to nullify the conjunction working of loco brakes _____ coc should be closed	C3W coc
134	In banker loco 3/4 or 1 " coc should be kept in position.	Closed
135	In IRAB-1 brake system when A9 is brought to emergency, engine RPM will come to idle through	PCS2
136	BP pressure is set by keeping A9 handle in _____ Position	release
137	In IRAB1, brake system during D1 emergency engine will come to idle due to operation of _____	PCS2
138	In IRAB1 brake system BP charging is taking place through _____ valve.	Additional C2 relay valve
139	FP pipe is charged from	MR1
140	Feed pipe is getting charged by _____ valve.	D24B or F2 feed valve
141	BC pressure will not build up if MU2B valve is in _____ position.	Trail
142	Air flow indicator shows	rate of BP charging
143	MR-equalising pipe is charged from	MR1
144	C3WDV isolating cock is Located at	Air Brake panel (NC)
145	If water contaminated with lube oil, viscosity of the lube oil will be _____	Increased
146	Centrifugal oil separator is provided in _____ System	Lube oil system
147	Centrifugal oil separator is provided to filter _____ in lube oil.	carbon particles
148	Lube oil pump is driven by	gear
149	Woodward governor is located at	Engine Right side power take off end
150	In WDG3A loco, instead of snubbers _____ are provided.	Vertical hydraulic dumpers
151	In WDG3A loco, instead of collar pins _____ are provided.	U' or 'D' shackles
152	WDG3A loco have _____ type of bogie.	Co-Co fabricated

153	Each brake cylinder operates _____ no. of brake blocks.	3
154	To avoid separation of chasis & bogie _____ are provided in WDM2 locomotive.	Collar pins and 'U' bracket
155	To avoid separation of chasis & bogie _____ are provided in WDG3A locomotive.	'U' and 'D' shackles
156	WDG3A loco super structure load carried by _____ item .	load pads
157	Centre pivot of _____ Bogie is not transferring any load.	Fabricated bogie
158	Type of bogie provided in WDM3A loco is	Tri mount bogie
159	Type of bogie provided in WDM3D loco is	Fabricated bogie with Equalising or Without Equalising Beam
160	Type of bogie provided in WDG3A loco is	Fabricated bogie with Equalising beams
161	Pinion and Bull gear's are Lubricated by _____ in WDM-3D Locomotive.	cardium compound
162	If water pump tell tale hole is leaking water , _____ seal may be defective.	Water
163	If water pump tell tale hole is leaking oil , _____ seal may be defective.	Oil
164	The colour of HP power cool is _____.	Fluorocent yellow green
165	If water level drops to 1" from the bottom of the tank _____ safety device will operate.	LWS
166	If water temperature raises to 90 deg.c _____ safety device will operate.	ETS
167	On expansion tank, if _____ unit is not secured properly, complete water may be siphoned out	Pressure cap
168	If water is leaking from water pump tell tale pipe, _____ level is to be ensured to work further.	Water
169	Dis colourization of lube oil to gray brown or milky colour is evidence of _____ in the oil.	Water
170	LWS is connected to expansion tank at the level of _____ from the bottom of the tank.	1"
171	_____ type fire extinguishers are provided in ALCO loco.	DCP
172	In single working loco, if EPG is fitted then its toggle switch should be kept in _____ position .	ON
173	Before starting the train in level gradient, ensure BC pressure should be _____.	Zero
174	While approaching _____ type gradient Train brakes to be in fully released condition.	Steep ascending
175	Sufficient notches to be opened before releasing loco brakes while starting the train on _____ type gradient.	Steep ascending gradient

176	While starting train on _____ type gradient loco brakes to be released before opening notches.	Steep Descending
177	 type gradient is to be approached with reduced power and speed.	Undulating
178	Sander test on WDG 3A Loco to be conducted by keeping Reversor Handle in _____ Position.	Forward/Reverse

HHP LOCOMOTIVE

179	In WDP4/WDG4 loco while connecting and disconnecting BP/FP pipes L/T switch should be kept in Position	Test
180	In WDP4/WDG4 loco if LLOB is in tripped condition during cranking engine will not	Crank
181	In WDP4/WDG4 if OSTA is in tripped condition during cranking engine will not.	Fire
182	In WDP4/WDG4 locos to create vacuum in engine crank case instead of CCEM _____ is provided.	Eductor tube
183	Battery knife switch of WDP4 loco is located at	Foot plate Loco left
184	In WDP4/WDG4 loco if PCS knocks out and BP not creating, before conducting Air brake self test has to be recycled.	MAB
185	In WDP4/WDG4 dead loco dead man coc should be kept in _____ Position	open
186	In WDP4/WDG4 loco if AGFB breaker trips _____ will not respond	TE/BE Meter
187	Capacity of lube oil system in high horse power (WDP4/WDG4) locos is _____ Ltrs.	1457
188	In WDP4/WDG4 loco non-working control stand L/T switch should be kept in _____ position.	Trail
189	In WDP4/WDG4 MU trailing loco both control stand A9 should be kept in _____ position.	Full Service
190	In WDG4 banker loco working control stand Auto Brake & L/T switch should be kept in _____ & _____ Position	FS,Helper

WDG4G/6G

191	MTB stands for	Multi-Task Breaker
192	BCCB stands for	Battery Charge & Computer Breaker
193	LCCB stands for	Local Control Circuit Breaker
194	In WDG4G/6G Locomotive, The position of EC Switch in inactive console is	OFF

195	In WDG4G/6G Locomotive, The position of EC Switch in active console to move the locomotive is	RUN
196	In WDG4G/6G Locomotive, Engine speed does not rise if EC switch is in position	Isolation
197	In WDG4G/6G Locomotive, Engine speed & Power circuits will be active if EC Switch is in position	RUN
198	 Brake apply indication will show on EC Panel	Parking
199	 colour push button to be pressed to apply Parking brakes	Red
200	 colour push button to be pressed to release Parking brakes	Green
201	COB & GFB are located on panel in WDG 6G locomotives	EC
202	 Nos. of Braking Blower Motors are available in Auxiliary Cab	2
203	Dynamic Braking Grids are located on side of Auxiliary Cab	B
204	Dynamic Braking Blowers are located on side of Auxiliary Cab	A
205	CA #2 & CA #3 are located on side of Auxiliary Cab	A
206	CA #4 & CA #5 are located on side of Auxiliary Cab	B
207	CA #9, CA # 12 & CA #13 are located in Cab	Radiator
208	Normally, comprises of Controllers, Relays, Contactors, Control Panels, Switches, etc.,	Control Areas
209	CA #1 is located at	rear wall/portion inside Cab #1
210	MBD switch is located on side of Auxiliary Cab	A
211	First row of HMI contains Nos. of Function(Fx) keys	8
212	 Nos. of engine cylinders are available in WDG4G	12
213	Idle RPM of WDG 4G Diesel engine is	440
214	8th notch RPM of WDG 4G Diesel engine is	1050
215	Low Idle RPM of WDG 4G Diesel engine is	330
216	Nos. of Fuel Oil glowrod guages in each side of WDG 4G locomotive is and WDG 6G is-----	2,4
217	WDG 4G Locomotive has Compartments	6
218	GHP of WDG 6G locomotive is	6000
219	 Cab is available between Engine Cab and Auxiliary Cab	Blower
220	There are Nos. of Control Areas in WDG 4G/6G locomotive	8
221	The right side of Reference/Operator #1 Cab is called side of locomotive	A
222	The right side of Secondary/Operator #2 Cab is called side of locomotive	A

223	The gross weight of locomotive WDG4G and WDG6G isand -----Tonnes respectively	132138
224	Gear Ratio of WDG 6G locomotive is	85:18
225	Gear Ratio of WDG 6G locomotive is	85:16
226	Reverser handle has Nos. of positions	3
227	Combined Power handle has & zones	THROTTLE & DB
228	Combined Power handle can be operated in zone irrespective of Reverser handle position	THROTTLE
229	Reverser handle position to be in either or position to operate the Combined Power handle in Braking zone	F/R
230	CPH has & Nos. of positions in Throttle side	IDLE & N1-N8
231	CPH has & Nos. of positions in Braking side	SET UP & B1-B8
232	EBV has & Brake handles to operate the brake systems	Auto & Independent
233	Independent Brake handle has & positions including service position	REL/APPLY
234	Independent Brake handle has switch to quick release/avoid the Coaction brakes	Bail-off
235	Independent Brake handle to be in position while moving as dead and in trail loco of MU consist	REL
236	Auto Brake handle has Nos. of positions	5
237	For Auto Brake handle, position is unstable position	REL
238	The default position of Auto Brake handle for train operation is	RUN
239	The zone between 'Minimum Reduction' & 'Full Service' is called as	Service
240	During REL position of Auto Brake handle, BP charges Kg/cm ² beyond normal BP pressure	0.5
241	 Kg/cm ² of BP pressure reduces during Auto Brake handle in minimum reduction position	0.4-0.5
242	 Kg/cm ² of BC pressure develops during Auto Brake handle in minimum reduction position	0.9-1.1
243	 Kg/cm ² of BP pressure reduces during Auto Brake handle in FS position	1.6-1.8
244	 Kg/cm ² of BC pressure develops during Auto Brake handle in FS position	1.6-1.8
245	Air Brake mode (L/T) switch is fitted on	EBV

246	Air Brake mode switch has Nos. of positions	4
247	While changing the Air Brake mode switch to Lead position from other modes, A9 handle to be kept in Position	FS
248	Air Brake mode switch to be kept in position to conduct BP leakage test	Test
249	 Brakes applies automatically when Air Brake mode switch placed in TEST position	Independent
250	'EMERGENCY' Brake Valve is located on left side of Console in WDG4G Locomotive	Helper/Crew Member
251	The normal position of 'EMERGENCY' Brake Valve is Position In WDG4G Locomotive	Downward
252	UPWARD position of 'EMERGENCY' Brake Valve indicates the In WDG4G Locomotive	Application
253	The left side Console is called as Console	Operator
254	The right side Console is called as Console	Crew Member
255	MUSD switch is located on Console of each cab In WDG4G Locomotive	Crew Member
256	COB is located on Console In WDG4G Locomotive	Crew Member
257	GFB is located on Console In WDG4G Locomotive	Crew Member
258	DBC B is located on Console In WDG4G Locomotive	Crew Member
259	In WDG6G Locomotive Lube oil sump capacity is Litres	1300
260	In WDG4G Locomotive, Lube oil Dip stick is located on either side of engine at End	TSC
261	New Dip Stick has & Marks to assess the quantity In WDG4G Locomotive	Full & Low/Add
262	In WDG4G Locomotive, Lube oil filter is located on side of Integrated Front End/ TSC end	B
263	 Brake is a spring applied and air released unit	Parking
264	 Nos. of Parking Brake units are available on each bogie	2
265	 Nos. of Parking Brake COC are provided in WDG4G locomotive	2
266	If Parking Brakes are not released even after MR pressure is more than 6.0 kg/cm ² , release Parking Brakes by	manually
267	Before moving a locomotive in 'DEAD', release Brakes, manually	Parking

268	Before releasing Parking Brakes manually, ensure locomotive is in condition	secured
269	After manual release of Parking Brakes, do not the locomotive till adequate TBU brake cylinder pressure has built up	unsecure
270	APU is located in Cab in WDG 6G locomotives	Radiator
271	TELM switch has Nos. of positions	2
272	The default position of TELM switch is	Normal
273	 switch position in active locomotive controls all trailing locomotives of MU consist irrespective of its' position in trailing locomotives in WDG4G/6G	TELM
274	 message appears on TCD if TELM placed to 'Limited'	TE Limited
275	In WDG4G Locomotive, 'Blended' Brake' indicator is available on Panel	EC #1 & #2
276	AEB switch has & positions	OFF & ON
277	'Event Recorder' switch has & positions	ER active & Memory Freeze
278	'Blended' Brake switch has & Positions	Cut-in & Cut-out
279	'Auto Stop Override' push button is located on Panel	EC #1
280	Before switching to Back Up Brake mode, ensure Auto Brake handle in active cab in position and Back Up Brake handle in Position in WDG4G/6G	FS & Apply
281	PCSS(Pneumatic Cab Selection Switch) is located on	CA 12
282	During normal EAB operation, the position of Back UP Brake handles is	Neutral
283	 indicator is provided to indicate the operational status of Air Dryer Humidity	Silicagel Colour
284	WDG 4G /6G locomotive has type of brake rigging	Tread Brake Unit
285	 type Fire extinguishers are provided in WDG 4G/6G locomotives	CO2
286	 Nos. of Fire extinguishers to be available in WDG 4G/6G locomotives	3
287	Capacity of each Fire extinguisher is Kg in WDG 4G/6G locomotives	10
288	Auto Flasher Light can be reset by toggling switch on Control desk	AFL RESET
289	Alarmer visual indication is available on console	both
290	Maximum Starting Tractive Effort of WDG 6G locomotive is KN	570
291	Maximum Continuous Tractive Effort of WDG 6G locomotive is KN	420
292	 Nos. of TBUs are available in WDG 4G locomotive	12
293	 Nos. of Brake Blocks are available in WDG 4G locomotive	12
294	CA 2,CA3,CA4,CA5 are located in Compartment	Auxiliary

295	The Wheel arrangement in WDG 4G/6G locomotive is	CO-CO
296	 Nos. of Sand boxes are available in WDG 6G locomotive	8
297	MDB stands for	Maintenance Battery Disconnect
298	 Nos. of engine cylinders are available in WDG6G	16
299	MC 30 to be pressed for seconds before moving a locomotive in dead	30
300	if required to move the Rear loco in shutdown condition in WDG4G/6G MU Movment to be followed to avoid parking brakes in rear loco	Dead loco movement
301	Parking brakes can be released through.....&	PB release push button,manual release
302	Parking brakes can be applied through..... ,&	PB application push button,putting off LCCB Breaker, droppage of MR pressure below 5kg

ALCO LOCO						
ID	Question	A	B	C	D	Ans
1	Which circuits are protected by GR1 & GR2 after earthing?	Power Circuit	Control circuit	Power and Control circuits	Nothing	C
2	How to reset the VCD penalty brakes in alco locos	Bring TH to idle	Reset after 35 secs	Both a and b	shut down the engine	C
3	During M.U. operation if trailing loco GR-1 trips on run, the indication in leading loco	GR-1 knob projects out	Bell will ring along with white bulb glowing	Load meter will overshoot with alarm bell ringing	Engine will shut down	C
4	Continuous working in restricted zone will cause	continuous wheel slip	power ground	Hot engine alarm	Engine shut down	B
5	If battery ammeter is showing over charging, what may be the reason?	BS open	MB1 tripped	Battery defective	AGFB tripped	C
6	If Battery Ammeter shows over charging due to defective battery, the following action is to be taken?	BS to be open	Shut down the engine	Engine to be brought to idle	No action required	A
7	If battery ammeter shows discharging, what may be the reason?	AGFB Tripped	AG defective	AGPWM defective	All the above	D
8	If Battery ammeter shows discharging and not rectified what is the action to be taken?	Work for 4 Hours	Do not Shut down	Do not allow for Automatic Shut Down.	All of the above	D
9	What is the reason for battery ammeter showing ZERO?	Battery Switch Open	AGFB Tripped	AGPWM Defective	AUX. GEN. Defective	A
10	In AC/DC loco if cranking contactors gets welded	Batteries will get discharge	Batteries will get overcharge	Engine will get shut down	Batteries will neither charge nor discharge	A
11	What happens if amphenol plug is slack on run in WW governor loco?	Engine Idle, Load meter zero	Only Load meter zero	Only engine idle	Engine shutdown	A
12	What may be the reason for throttle is not responding?	DMR De-energized	GR Tripping	GFOLR Tripping	All the above	D
13	What happens if MCB1 or MCB2 gets tripped on run?	Engine shutdown	Engine comes to idle	Load meter shows zero	No Problem	B
14	When does AFL System operate?	Fireman emergency	ACP	Guard application	All the above	D
15	What is the effect of AFL operation?	Engine comes to idle	AFL Indication	Buzzer	All the above	D
16	Which item is used to reset AFL?	SW1 & SW2	SP1 & SP2	MCB1 & MCB2	MFPB1 & MFPB2	A
17	If AFL Malfunctions Driver must observe	BP For 5Kg/Cm	MR For 9.5Kg/Cm	Control air pressure for 5Kg/CM	FP For 6Kg/Cm	A
18	The Procedure for isolation of AFL, when AFL is malfunctioning	If isolation switch available switch Off	If not disconnect 171 wire	both A & B	none of the above	C
19	What is the purpose of GFOLR in AC/DC Locomotive?	To protect Main Generator field	To protect Rectifier panel	To protect Main Generator field & rectifier panel	To protect Auxiliary Generator	C
20	No of GRs in AC/DC locomotives	1	2	3	4	B

21	In ww gov. loco if PCS is knocked out	ERR will de-energise	ESR will de-energise	DMR will de-energise	Both A & C	D
22	Throttle will not respond if	MB2 trips	MB1 trips	AGFB trips	MCB trips	D
23	If engine is not cranking which switch to be checked?	Battery Knife Switch	Engine Control Switch	MUSD Switch	All the above	D
24	If engine is not cranking which switch is to be checked in nose compartment?	Battery Knife Switch	Engine Control Switch	MUSD Switch	Start Switch	A
25	If engine is not cranking which switch is to be checked on the front panel?	Battery Switch	MUSD	ECS	G.F.Switch	C
26	If engine is not cranking which contactors are to be checked?	FPC Contactor	CK1 Contactor	CK2 Contactor	All the above	D
27	For engine cranking what should be MUSD & ECS position?	RUN, RUN	RUN, IDLE	STOP, RUN	STOP, IDLE	B
28	If FPC Contactor closing but engine is not cranking what may be the reason?	MB1 Tripped/Off	MB2 Tripped/Off	FPB Tripped/Off	MFPB1 & MFPB2 Tripped/Off	C
29	If engine is cranking but not firing while starting what may be the reason?	FPM not working	Fuel Booster Pump defective	Love joy coupling defective	All the above	D
30	What is the reason if engine is cranking but not firing?	Governor booster pump defective	Love joy coupling defective	No Governor oil in tank	All the above	D
31	What is the reason if engine shutdown automatically on run?	MB2 Tripped	MFPB1 & MFPB2 Tripped	FPB Tripped	All the above	D
32	Which breaker is to be checked if engine shutdown on run?	MB1	MCB1 & MCB2 Tripped	FPB Tripped	All the above	C
33	What should be checked if engine shutdown on run with indication?	OSTA	LWS	SAR	Governor Am phenol plug	B
34	If engine shuts down with hot engine alarm which safety device operates?	ETS	LWS	SAR	OPS	B
35	In AC/DC Locomotives engine is cranked by	Main Generator	Aux. & Exc. Generators	Auxiliary Generator	Exciter Generator	B
36	In AC - DC loco if MB2 trips on run	Batteries will get overcharge	Batteries will get discharge	Engine will shut down	BCA will show 0	C
37	Engine should not be cranked if it is shut down for more than	24 hrs.	16 hrs.	48 hrs.	32 hrs.	C
38	If MCBG power breaker is in OFF position during cranking engine will	not Crank	not Fire	not Hold	a and b	B
39	In Alco loco fuel pump motor is located in	Nose compartment	Radiator room	Expresser room	Engine room	C
40	LWS emergency switch should be switched 'ON' if	Water level is less than 1" from bottom	water level sesnsor is defective	Continuous hot engine alarm	Both a and b	B
41	In AC/DC loco during cranking, engine will not crank if	GR trips	GR1 trips	GR2 trips	GFOLR trips	C
42	In AC/DC loco if CK1 and CK2 are welded	Battery ammeter will show discharge	Loadmeter will not respond	Both a & b	Battery ammeter will show overcharge	C
43	Fuel pump motor is not working though the all circuit breakers are switched ON, the immediate reason could be	ERF not closed	R1 and R2 not picked up	GFC not picked up	FPC not picked up	D
44	Pre-lubrication is required if an engine that has been shut down for more than _____ hours	48	24	12	8	A
45	Improper control air pressure leads to	Power Contactors fluttering	Flash Overs	Power Ground	All the above	D
46	If engine is running with Hot engine alarm which safety device is operated?	LWS	OPS	ETS	SAR	C

47	What is the effect of GR tripping?	Load meter zero	Engine comes to idle	GR Indication with bell	All the above	D
48	What is the procedure to be taken before resetting GR & GFOLR?	ECS & Throttle Idle	Both GF Switches Off	Reverser Handle neutral	All the above	D
49	How many times resetting of GR & GFOLR will be done?	3	6	Work on lower notches	Work up to destination	A
50	If BKT or Reverser is not operating properly what is the action to be taken?	Fail the loco	Operate manually with 'L' rod	Shutdown engine	Engine Idle	B
51	In AC/DC if GFOLR trips	Engine will shut down	Loadmeter will not respond	Throttle will not respond	Both b and c	D
52	If exciter current exceeds 285 amps	GFOLR will trip	GR2 will trip	GR1 will trip	GR will trip	A
53	Hot engine alarm will be experienced after	TS1 picks up	LLOB operates	TS2 picks up	ETS picks up	D
54	ERF should be put ON when	ECC is defective	R1 & R2 defective	ETS Defective.	Both b and c	D
55	If radiator fan is not working during continuous hot engine alarm switch ON.	ERF	LWS	DMR	TR	A
56	S21 contactor is connected between TM Nos.	3&6	1&4	2&5	3&5	A
57	In Medha Microprocessor ver3 loco Low hauling power will be experienced when	TE limit switch is enabled	Rectifier fuse blown out	Both a & b.	Power setter switch enabled.	C
58	In Medha microprocessor loco when one TM is isolated, loco will	start with Series parallel combination	start with Parallel combination	start with Parallel with shunt combination	Loco will not move	A
59	In Medha ver 3 loco, traction motors are isolated through	DID panel	MCOS	Toggle switch	By packing reverser bits	A
60	In Medha microprocessor loco if TM No. 4 & 5 are isolated loco will start with	Series parallel combination	Parallel combination	series parallel with shunt combination	Parallel with shunt combination	B
61	In Medha microprocessor loco when TM no.5 is isolated	S1 will not pick up	S21 will not pick up	S31 will not pick up	P32 will not pick up	C
62	If MPCB breaker trips DID will become blank in	GE microprocessor loco	Siemens microprocessor loco	Medha microprocessor loco	GM loco	C
63	In Medha Microprocessor loco if TM2 & 5 are isolated loco will start with	Series-parallel combination	Parallel combination	Parallel with shunt combination	Series-parallel with shunt combination	A
64	Control air pressure is adjusted by	A9 Feed valve	F1 selector valve	NS 16 governor	N1 reducing valve	D
65	Dynamic brakes should not be used when	FPC is packed	Working with manual transition	GF emergency switch is put 'ON'	GFC is packed	D
66	In single BKT/Rev Loco during DB which power contactors will not pick up ?	P2 & P22	S21 & S31	S1, S21 & S31	Both a and b	D
67	DB should not be used when	BKBL failed	Load meter failed	GF emergency switch is 'ON'	Both a and b	D
68	Dynamic brake will not work if	GF emergency switch is put ON	TM is isolated	Working with manual transition	LWS emergency switch is put ON	B
69	In AC/DC loco if CK3 gets welded	Load meter will not respond	Batteries will get discharged	TH will not respond	Both a and b	D
70	In AC/DC loco loadmeter will not respond if	CK1 & CK2 welded	CK3 welded	Both a and b	GFC is welded	C
71	N 1 Reducing valve is located in	Radiator room	Compressor room	Nose compartment	Rear compartment	C

72	To isolate TM 1 _____ power contactor to be isolated	P-1	P-2	P-22	P-21	B
73	To isolate TM 2 _____ power contactor to be isolated	P-1	P-2	P-22	P-32	D
74	To isolate TM 4 _____ power contactor to be isolated	P-22	P-31	P-1	P-2	C
75	To isolate TM 5 _____ power contactor to be isolated	P-22	P-31	P-21	P-22	B
76	To isolate TM 6 _____ power contactor to be isolated	P-21	P-31	P-22	P-32	A
77	To isolate TM3 _____ power contactor to be isolated	P-22	P-32	P-21	P-31	A
78	One of the following equipment is in Nose compartment	MR1	MR2	Control air pressure reservoir	All the above	C
79	Eddy current clutch is located in	Nose compartment	Control compartment	Compressor room	Radiator room	D
80	To get quick charging of BP which should be operated?	SW1 & SW2	SP1 & SP2	MCB1 & MCB2	MFPB1 & MFPB2	B
81	In place of AC Governor, which Governor is provided for compressor loading And unloading	EPG	GE	W.W	Run-Release	A
82	Lube oil filter is located in	Nose compartment	Expresser room	Engine room	Radiator room	D
83	If inlet valve of HP cylinder is struck up in closed position	MR safety valve will blow	Inter cooler safety valve will blow	Auto drain valve will blow	Both a and b	B
84	In ALCO locos turbo super charger turbine is rotated by	Gears	Motor	Exhaust gas	Clutch	C
85	Main reservoir safety valve is set at _____ KG/cm2	10.5	8	9	9.5	A
86	After cooler cooled air in air inlet casing is also called as _	Control air pressure	Vacuum control air pressure	HS4 pressure	Booster air pressure	D
87	The coupling between right angle gear box & radiator fan is	Universal Coupling	love-joy coupling	CBC coupling	Cam gear	A
88	What is the minimum clearance required for wheel to brake block during release?	10mm	8mm	6mm	4mm	A
89	What is the piston travel of brake cylinder, In WDM3A locomotive?	60 to 85 cm	85 to 95 cm	95 to 105 cm	90 to 100 cm	C
90	In ALCO Locos Fuel oil crossover flexible pipe is located in	Radiator room	Nose compartment	Power takeoff end	Free end	C
91	If white smoke is emitting from exhaust chimney, what could be the reason?	Water mixed with fuel oil	Governor oil mixed with fuel oil	Lube oil mixed with fuel oil	None of these	A
92	Lube oil dipstick gauge of WDG3A is having _____ liters capacity.	400	380	600	500	C
93	In Alco Locos Lube oil Cooler is located in _	Radiator room	Compressor room	Generator room	Under truck	A
94	What is the Safety Device provided in the Lube oil system?	GFOLR	OSTA	LLOB / OPS	LWS	C
95	When LLOB trips, the engine will _	Raise	Shutdown	Comes to Idle	Hunting	B
96	A pressure cap, which is located on the water tank filler pipe, opens at approximately.	25 PSI	15 PSI	20 PSI	70 PSI	C
97	Hot engine alarm (HEA) will come at _____ degrees centigrade in ALCO locomotive	60	70	90	80	C
98	LWS is connected to	Water left side return header	Water expansion tank	Water right side return header	All the above	B
99	In M.U. operation if trailing loco ¾" coc alone kept in open position	BP will not destroy in any position	BP will destroy only in emergency position	Loco brakes will not apply	BP will not create to 5 kg/cm2	D
100	In MU operation during A9 application, trail loco brakes gets applied through	C3W DV	F1 selector	Additional C2 relay valve	Both a & c.	B

101	While working an air brake train if engine shuts down on run	The train brakes will apply automatically	Apply A9 and release after train comes to stop	Keep A9 in Emergency position until the trouble is rectified.	Apply loco brakes alone	C
102	If SA9 COC is closed in working control stand	loco brakes will not apply	conjunction brake will not apply	loco brakes will apply	Bp will not create	A
103	Location of C3W DV in IRAB brake system is	B control stand	Nose compartment	under truck	A control stand	B
104	If brake system coc is kept in closed position.	BP pressure will not create	FP pressure will not create	MR pressure will not indicate	Both a and c	D
105	If brake system coc is closed	MR gauge will indicate zero	FP gauge will indicate zero	Both a and d	BP gauge will indicate zero	C
106	Reduction in BP pressure causes _	Brakes release	Brakes slow release	Brakes application	MR pressure increasing	C
107	MR1 & MR2 are equipped bottom mounted automatic drain blow down valve. These are used to remove condensate from the main reservoirs. The valves are normally air actuated, and gets operated each time the _	the compressor is unloading.	When penalty brake applied	the compressor is loading.	Both a & c.	D
108	In WDG3A locomotives 3/4" COC(BP COC) is located in/at	Nose compartment	Driver cab	Short hood control stand	None of the above	A
109	Electro Pneumatic Governor is located in	Compressor room	Radiator room	Nose compartment	Driver cab	A
110	From where the control air pressure will get air pressure_	MR2	MR1	BKTs	J filter	B
111	M R(compressed air pressure) Unloading will takes place at _____ kg /cm2.	8	9	10	11	C
112	The compressed air enters to MR1 tank through	MR Safety valve	MR2	Cooling Coil	3 / 4" cutoutcock	C
113	Side load pads are provided in this type of under truck	Tri mount bogie	Fabricated bogie	HTSC bogie	both b and c	D
114	If Head light fails what is the action to be taken by the Drivers?	Fail the loco	Follow G&SR Rules	clear the block section	Work normally	B
115	A goods train having upto 56 wagons, the BP pressure in engine shall be _____ and in BV _____ kg/sq.cm.	5.0, 4.6	5.0, 4.8	4.8, 5.0	6.0, 5.0	B
116	A goods train having 58 and above wagons, the BP pressure in loco shall be _____ and in BV _____ kg/Sq.cm.	5.0, 4.5	6.0, 5.8	5.0, 4.0	5.0, 4.7	D
117	A Railway servant directly connected with train passing duties shall not consume alcoholic drinks within _____ hours before commencement of duty.	2	5	8	10	C
118	Loco pilot should conduct BP Continuity test before starting his train to ensure_	Brake power till the last vehicle	To ensure availability of Guard in B.Van/SLR	to sign in BPC	To know the proper working of compressor	A
119	Loco pilot should exchange alright signals with the station staff to ensure_	To make the station staff alert	To tell the station staff that train crew are alert	To ensure the availability of station staff	To ensure the train passing safely	D
120	By applying A-9, formation brakes are not applying-Reason might be	A-9 COC in working control stand is in closed condition	MU2B in trial	1" coc in closed	All of the above	D

121	On run if Air Flow Indicator overshoots with jerk indicates__	Air brake failure	Loco failure	Air flow indicator defective	Train Parting	D
122	While working LE's Loco Pilot should_to Stop the Locomotive.	apply A-9 brake	apply SA-9	apply Hand brakes	Close the throttle to zero.	B
123	Locos provided with Cast Iron brake blocks requires _____ than the Locos provided with Composite brake blocks	More braking distance	Less braking distance	frequent change of brake blocks	BC pressure 3.8 kg/cm ²	A
124	If train stopped in mid section on account of Loco Failure Loco pilot should do _____ immediately	Inform TLC/PCOR	Put on Flasher Light, Apply A- 9 to EMER,SA-9, wooden wedges and secure formation.	Ask for relief Loco	Attend the Locomotive	B
125	Revised VCD cyclic timings are__	60, 8 and 8 seconds	60,17 and 17 seconds	170, 17 and 17 seconds	65,8 and 8 seconds	A
126	While working LE's Loco pilot should check and ensure _____ before starting.	Head light	Flasher Light	Brake Power physically and not moving of Loco up to 2nd Notch on application of SA-9	All of the above	D
127	When LE loco brakes are not applying check	SA9 COC	MU2B	BC COC & Pressure	All	D
128	When loco working as banker the position of MU2B & BP isolation COC	Lead & close	Trail & open	All	None	A
129	Immediate action when BP is not destroying with A9 during controlling of train	Open A9 COC in Non-working cont. stand	Apply D1 Emergency	Change the Cont. stand	Adjust BP pressure	B
130	Important test should be done before leaving station for a train	Brake feel test	Brake power test	Air continuity test	All	C
131	What test must be done by LP while leaving station with what speed	Brake feel test, 15 KMPH	Brake power test, MPS	Working of DB, 15 KMPH	None	A
132	If an Air Brake train stopped on a gradient of 1/400 & above due any reason, which brakes should be apply.	SA 9 only	A9 only	Hand brake	All of the above	D
133	After detaching Loco from formation which safety aspect should be check before working LE.	Continuity test	Traction test	Loco Brake power test	Leakage test	C
134	While TOC of Loco, If Flasher light glows but does not blink, what action would you take.	Loco to be failed	Will work to nearest shed	Change the bulb	Work normally	A
135	How would you work the train if the loco wheel develops skid mark more than 50 mm between section?	Fail the loco at site	clear the section with 30 KMPH	Clear section with 20 KMPH	None	B
136	After which check/restriction, non derailed vehicles of a train involved in accident be allowed for on-ward journey	Without check	After certified by TXR	With 10% less speed	80 KMPH	B
137	What immediate action would you take on noticing sudden drop of BP pressure/vacuum on run?	Stop the train	Contact Guard on VHF	Switch on Flasher light	Inform PRC	C
138	When Head light become defective speed of the train shall not exceed ?	20 kmph	30 kmph	40 kmph	50 kmph	C
139	What should be done by LP for releasing proportional loco brakes during A9 application?	Pressing BKIV foot pedal	Application of DB	Either A or B	None	C

140	The lead /Trail switch position in consol of WDG4/WDP4 working as MU trailing is	Trail	Lead	Both	None	A
141	If BP & FP pipes are wrongly connected will fail.	Loco is failed	Formation Brakes	Loco brakes	All	B
142	Immediate action of ALP when LP is not controlling of train?	Apply D1 emergency gradually	Repeat signals	Inform PRC	Inform CCC	A
143	What action should be taken by LP when loco fails on run in section?	Clear section and stop	Trouble shoot first	Stop & secure first	Inform PRC	C
144	In case of Brake binding in air brake wagon, what additional action would you take other than releasing of brake?	Isolate DV	Isolate BC	Isolate TP cock	Close BP angle coc	A
145	What would you understand if needle of air flow indicator comes down of a goods train in yard?	Full brake application	GD. Side angle coc closed	Loco side angle coc closed	Brake application by GD	C
146	When continuous wheel slip is experienced due to locked axle	Fail the loco immediately	Isolate the particular axle's TM and work further	Clear the section and fail the loco	Isolate the truck	A
147	Loco should not be moved if water level above rail is	4 inches	3 inches	1 inches	2 inches	A
148	While working twin pipe air brake train if BP metallic pipe is damaged	By passing to be done	Work with FP alone	Detach the coach after clearing section	Both b and c	A
149	In Air brake passenger train if BP metal pipe is damaged	Work with single pipe	Work further bypassing the coach	Both a and b	Work with FP alone	C
150	_____ will be switched on automatically in loco, during accidents.	Head light	Auto flasher light	Marker light	Doom light	B
151	FP pressure in loco shall be _____ and in BV _____ kg/Sq.cm.	5.0, 4.8	5.0, 4.7	6.0, 5.8	6.0, 5.7	C
152	What is the colour code for the B.P pressure pipe ?	Black	Red	Green	Yellow	C
153	DV isolating handle in _____ position indicates DV is in isolated position.	Vertical	Horizontal	60 degrees	None of these	B
154	DV isolating handle in _____ position indicates DV is in working position.	Horizontal	Vertical	45 degrees	None of these	B
155	When a Train engine is disabled in mid section, Driver should ask for relief engine if he expects that the train engine cannot be put in working order within _____ minutes.	5	10	15	None of the above	A
156	When the speedometer of a running train engine becomes defective	Fail the locomotive	Work the train by reducing 10% speed from Booked speed	Work further with 50 kmph	Ask for the relief engine	B
157	How the notching up is to be done in Undulating terrain ?	Repeatedly changing the notches	without notching up	Constant notches to be maintained	none of the above	C
158	Identify the problem in brake power ?	A9 coc in both control stand in open condition	MU2B in Lead position & 3/4" coc in open in Rear loco	For loaded rake the Load/empty device handle in empty direction	All the above	D

159	If MU loco's get parted through which valve brake will apply in rear loco?	SA-9	A-9	F1.selector	N1 Reducing	C
160	The effective Brake Power in case of Mail/Express at the originating station should be _____ % and enroute can be not less than _____ %	100, 85	100, 100	100, 90	100, 95	C
161	The following shall not be used for extinguishing fires on electrical equipment.	dry chemical powder	foam	water	none of these	C
162	What combination of trains are Permitted for running long haul train ?	Empty/Empty	loaded/Empty	Loaded/Loaded	All the above	D
163	What is the position of MU2B & BP isolation COC in banker loco ?	Lead & close	Trail & open	Trail & close	None	A
164	What is to be done by LP whenever the train engine is changed ?	Air brake continuity	releasing of brakes	GDR check	both A & B	A
165	What is to be observed as per load chart of WTT to avoid train stalling ?	Correct matching load as per loco in load table	air continuity	BPC of the train	None of the above	A
166	What is to be done by LP, if he feels the brake power of his train is poor ?	Re validation of BPC	Air continuity	work the train upto the destination & give all concern message	Stop the train next station, check the brake power % age & act accordingly	D
167	What will happen when isolation handles of 20 no. DV's in a formation of 58 wagons are in isolation condition ?	No change in brake power	load will be reduced	Poor brake power	increase the brake power	C
168	Which coc's should be ensured in open condition in both control stand?	A-9	SA-9	Both A9 & SA 9	None of the above	B
169	While carrying dead loco to be ensured	Conjunctional brake application in rear loco	conjunctional brake application in leading loco	Conjunctional brake in both loco's	none of the above	C
170	To reset only Buzzer what is the action required by the Driver?	SW1 & SW2	SP1 & SP2	Switch On normal flasher light and operate SW1/SW2	All the above	C

HHP LOCO

171	8th notch speed of WDP4 Engine _____ RPM	1050	1000	904	915	C
172	Low idle RPM of HHP engine is _____	440	200	269	400	B
173	Maximum rectified output voltage of Auxiliary Alternator is _____ volts	74	75	72	70	A
174	Maximum rectified output voltage of Traction Alternator is volts	2400	2500	2700	2600	D
175	HP of WDP4 Locomotive is _____	4000	4216	4500	3939	A
176	Normal idle RPM of HHP Engine is _____	290	269	250	296	B
177	_____ circuit breaker establishes local control with power from Locomotive battery or Auxiliary generator to operate heavy duty switch gear ,magnet valves ,contactor ,blower and miscellaneous relays.	AGFB	MCB	GF	Local control	D
178	AUX. GEN. Feed back breaker protects the _____	Aux Gen Field	Input of Comp. Alternator	Traction alternator field firing control circuit (FCD).	Tr. Alt. output	C
179	Maximum Stall Tractive Effort of WDG4 Locomotive is	540KN	544KN	570KN	250KN	A
180	In WDP4/WDG4 loco engine should not be cranked when	Low water button is tripped	crank case pressure button is tripped	LLOB is in tripped	OSTA is tripped	B

181	Location of Battery Knief Switch in WDG4 Loco is	Nose Compartment	In Accessories room	In LP's cab	Loco Left Side Foot Plate	D
182	After cranking, allow a minimum of _____ minutes for starter motor cooling before attempting another engine start.	20	10	2	5	C
183	Do not crank engine for more than _____ with starting motors in HHP.	30seconds	1minutes	10seconds	20 seconds	D
184	How many No.of batteries in WDP4 Locomotive	8	10	4	6	B
185	Current rating of Starting fuse_	600 amps	1000 amps	500 amps	800 amps	D
186	How many position does PRIME/START switch has_	3	2	1	4	A
187	shutting down of all diesel engines in a consist is accomplished _____ relay	DMR	GCR	SDR	FLR	C
188	If AGFB tripped in WDP4/WDG4 locos	Battery will discharge	Load meter will not respond	Both a and b	Engine will shut down	C
189	In WDP4/WDG4 loco defective speed sensor should be isolated if	False locked axle indication is experienced	GR trips more than 3 times within 10 minutes	Any one TM is defective	Crow bar fires	A
190	In WDG 4 if false locked wheel indication is experienced	Isolate defective sensor	Isolate defective truck	Isolate defective TM	Fail the loco	A
191	In WDP4/WDG4 loco loadmeter will not respond if	GFB trips	AGFB trips	Both a & b	dust exhaust breaker trips	C
192	In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle	Isolate the defective TM	Isolate the defective speed sensor	Fail the loco immediately	Isolate the defective truck	C
193	if the LR % is _____ , EM2000 is reducing power output because the engine's capabilities are less than the load being requested.	less than 200	less than 100	More than 100	less than 500	B
194	If the TM temerature is greater than _____ digree Celcius the inverter will derate to keep the traction motor temarature in control	200	100	95	92	A
195	Pupose of BWR (brake warning relay) is to	To cut out Dynamic brake in case of Over current	To identify the brake binding	Ensure working of Dyn braking	All the above	A
196	Purpose of TEL (Tractive effort limit)Relay in WDG4 Locos is	To limit tractive effort to 200KN or 20T	To limit tractive effort to 250KN or 25T	To limit tractive effort to 150KN or 15T	To limit tractive effort to 294KN or 30T	D
197	TCC1 COMPUTER breaker provides power and protection to	GTO1	The No.1 bogie traction inverter (TCC1)computer and associated circuits	TM1	DCL	B
198	The main functions of EM2000 computer is	Logic	Excitation	Display	All of the above	D
199	The purpose of DVR(Digital Voltage Regulator) is	To regulates Companion alternator output	To regulates Main Generator	None of the above	To Regulates auxiliary generator output by controlling auxiliary generator field current	D

200	In HHP locos, the purpose of Ground relay is to protect when _	A failed group of rectifying diodes	Development of a Main Gen positive or negative high voltage path to ground	A & B	TM Low current	C
201	Whenever DC link voltage exceeds 3200 volts ,the TCC fires a _____ crow bar	Hard Crowbar	Sneaky crow bar	Soft Crowbar	GR	C
202	How many Power Contactors are available in WDG4 Locomotive ?	7	9	8	0	D
203	The EM2000 will consider a temperature probe failed if it reads	less than -155 degrees C or greater than 150 degrees C	less than -55 degrees C or greater than 150 degrees C	more than -55 degrees C or greater than 150 degrees C	less than -55 degrees C or greater than 250 degrees C	B
204	The system maintains the coolant temperature within a predetermined range of from	79° C to 85° C	85 to 95	92 to 100	72 to 80	A
205	What is the indication for blown radiator fan fuse ?	LED	Buzzer	Fuse blown out Indicator will project out	Message	C
206	If hot oil detector operates, _	Engine comes to Idle	Engine will Shut down	Load meter zero	No effect	B
207	Bail off is provided to release	Direct brake application	Conjunctional brake application	Formation brakes	Both B and C	B
208	Oil lubricated TM gear case is provided in	WDM 2	WDM 3D	WDG 3A	WDP 4	D
209	In WDG4 loco LLOB is located in	Accessories room	Compressor room	Engine power take off end	ECC3	A
210	Where the booster air pressure stored in Two stroke engine?	In air box	manifold	tank	MR	A
211	How Crank case vacuum is maintained in WDG4/WDP4 engines(EMD) ?	Blower	Crank case exhauster	Eductor tube	No vacuum creation	C
212	EPD is Located at _	Engine Accessories Room	Engine room	Radiator Room	Equipment rake	A
213	WDP4 OSTA tripping rpm is:	(1155 ± 20)	(1125 ± 20)	(1045 ± 20)	(1100 ± 20)	C
214	In WDP4/WDG4 banker loco working CS, L/T switch should be kept in	Lead	Trail	HLPR	Test	C
215	In WDP4/WDG4 dead loco for quick release of loco brakes open one side	MR equalizing cock	BC equalizing cock	BP equalizing pipe	Both a & b	D
216	In WDP4/WDG4 banker loco working control stand A9 should be kept in	FS position	Run position	Release position	Emergency position	A
217	In WDP4/WDG4 loco when PCS is knocked out	MAB breaker should be recycled	TCC breaker should be recycled	Air drier breaker should be recycled	Both a and b	A
218	In WDP4 /WDG4 loco before conducting air brake self test	Recycle MAB	Recycle TCC1 and TCC2	Recycle Air drier breaker.	Both a & b	A
219	In WDP4/WDG4 loco while conducting BP leakage test. L/T switch should be kept in	Lead	Trail	Helper	Test	D
220	_____ is the main power supply of CCB for the CCB system.	DCU	VCU	PCU	DVR	B
221	Brake cylinder pressure maximum is _____ Kg/Cm2 during backup system	3.8	3.2	1.8	5.2	A
222	CCB fault code for Brake Pipe Leakage Failure _	6A	6C	6B	6D	C

223	Emergency brake application is accomplished by _____ valve provided at the lower left of each console	D 1 emergency valve	Indipent brake valve	Direct Brake valve	companion emegency brake	A
224	MRPT-main reservoir pressure transducer reads pressure_	Between MR1&MR2	MR1 pressure	MR2 pressure	FP pressure	B
225	The air brake system, trips locomotive control system whenever relay initiates a safety control or emergency air brake application.	PCR	DMR	WSR	SR	A
226	The EM2000 reads main reservoir air pressure_ transducer.	BPT	BCT	ERT	MRPT	D
227	What is the code for Brake pipe control failure in self test ?	8A	6A	10A	22A	B
228	What is the function of KE valve in CCB system in WDPG4Locomotive ?	provides pneumatic back Up	Creation of BP	Creation of FP	Emegency application	A
229	Why Maximum of 5.2kg/cm2 brake cylinder pressure is used in place of 3.5kg/cm2 as in conventional locos ?	High horse power loco	Speed is more	A single shoe system is used	To have effective brake power	C
230	De-energising of MVCC means	Unloading/unloadi ng of compressor	Unloading of compressor	Loading of compressor	Tripping of Micro Air breaker	C
231	Loading and unloading of compressor is controlled by _____ in WDG4/ P4	MVCC	EPG	RGCP	None of the above	A
232	The functioning of VCU is _	to reduces 73.5 V DC to filtered 25 V DC to CRU	to reduces 73.5 V DC to filtered 24 V DC to CRU	to reduces 72 V DC to filtered 25 V DC to CRU	to reduces 110 V DC to filtered 25 V DC to CRU	B
233	MR Cooling coils in WDG4 is located at	Under truck	Engine block	Radiator room	Expresser room	C
234	What precaution should be taken for conducting Air brake self test in GM locos?	Secure loco	Secure formation	Detach loco and secure	Secure both, close BP & FP COC of loco towards formation.	D
235	What should be done first for changing console in WDG 4 / WDP 4 locos ?	Disable working control stand & enable non working control stand	Enable working control stand & disable non working control stand	As per convenience	None	A
236	What should be the position of Lead /Trail switch in trailing loco of WDG4/ WDP4 MU ?	Trail	Lead	Both	Off	A
237	Oil visibilty in bypass sight glass indicates that	Primary filter is choked.	Spin on filter choked.	Lube oil filter choked.	Lube oil strainer choked.	B
238	In WDP4/WDG4 loco choking of fuel oil primary filter is indicated by	Filter condition gauge.	Oil visibility in bypasses sight glass.	Both A & B	Oil visibility in sight glass near to engine block	A
239	Fuel oil primary filter is located at _	Generator Room	Engine room	Radiator Room	Equipment rake	D
240	What is the Fuel oil tank capacity in WDP4D locomotive in litres.	6000	5000	3000	5500	B
241	In WDP4/WDG4 Loco when lube oil temperature exceeds 124 degree centigrade.	Hot oil detector operates	LLOB operates	OSTA trips	Both a and b	D
242	Capacity of Lube oil system of WDP4 class Locomotive is _____ liters	1457	900	1050	1150	A
243	Lube Oil capacity of Compressor in WDP4 is _____ ltrs	9	8	10	12	C
244	how many Lube oil pumps available in EMD engine?	5	7	9	4	D

245	In HHP Locos lube oil filter drum is located at _	Generator Room	Equipment rake	Engine room	Radiator Room	B
246	LLOB setting of WDG4 loco in 8 th Notch is	25-29 psi	8-12 psi	12-20 PSI	20- 30PSI	A
247	LLOB setting of WDG4 loco in idle is	10 - 12 PSI	8-12 psi	12-20 PSI	20- 30PSI	B
248	The purpose of Turbo lube pump in WDP4 Locomotive before cranking is	To lubricate the Turbo	To remove the residual heat	To lubricate turbo bearing	To lubricate crank shaft	C
249	Turbo lube pump should be running for _____ minutes after engine is shutdown if engine was running at 5th notch and higher for 60minutes prior to engine shut down.	15	35	20	45	B
250	Lube oil dip stick gauge capacity in WDG4 locos is _____ liters.	400	550	625	700	C
251	In HHP locomotives, Tractive effort is transferred from TM to wheel is through	Load pads	Side bearers	coil springs	Traction rods	D
252	Bogie configuration of WDP4 Locomotive is	CO-CO	Bo1 1 Bo	BO-BO	BU-BU	B
253	Axle Load of WDG4 Locomotive is	20.5 T	22.5T	25T	19.5T	A
254	Axle Load of WDP4 Locomotive is	20.5 T	22.5T	25T	19.5T	D
255	HHP Loco Hand brake is applicable for Wheel No. _	L4	L2	R 4	R2	C
256	Primary stage suspension in WDG4 is accomplished by _	Shock absorber	helical coil spring	Damper	Load pads	B
257	Secondary stage suspension is accomplished by _	snubbers	Damper	rubber compression springs	helical coil spring	C
258	Separation of the truck/bogie assembly from the locomotive in case of derailment and to provide a means of lifting the truck/bogie assembly along with the carboy is accomplished by -----	Hooks	Safety links	Lateral shock absorber	Springs	B
259	The unsprung weight of the locomotive carbody is transferred directly to the truck/bogie frame through _	Four Helical springs	Four rubber compression spring assemblies.	Four Shock absorber	Four coil springs	B
260	Traction Motor gear ratio for MAC is	17:90	18:65	17:77	18:74	C
261	WDG4 Loco is provided with _____ type of bogie	HTSC	Tri-mount	Fabricated with bolster	Flexi coil	A
262	_____ Number of brake blocks are provided on WDG4	16	12	32	22	B
263	In WDP4/WDG4 loco if water pressure is less	LLOB trips	Low water pressure button will trip	Crank case pressure button will trip	Both a and b	D
264	Type of Water Pump in WDP4 -----:	AC motor pump	Air driven pump	Centrifugal Pump	Gear pump	C
265	How many water pumps available in EMD locomotive engine ?	1	4	3	2	D
266	In HHP locomotives, If the coolant temperature reaches _____ degree C, the locomotive will go to throttle six limit.	96	92	85	100	A
267	In HHP locomotives, Manual sander wil be working when the unit speed is upto	30.6kmph	19.5kmph	30kmph	25kmph	B
268	In HHP locomotives, Manual Sanding is cutout when the locomotive is operating in power/wheel creep mode, and moving at speeds above	30kmph	10kmph	19.5 km/h	15kmph	C
269	Maximum continuous speed of WDP4 class Loco motive is _	140	150	160	180	C
270	Minimum contiuous speed at Maximum tractive effort of WDP4 Locomotive is _____ kmph	15.5	20	10	22.5	D

WDG4G/6G

271	Horse power of WDG4G locomotive is	3200	6000	4500	5000	C
272	Number of engine cylinders in WDG4G locomotive	8	12	16	20	B
273	Gear ratio Pinion to Bull gear ratio in WDG4G locomotive					C
274	In WDG 4G/6G loco CA2, CA3, CA4, CA5 are located in	Engine Cab	Operator Cab	Blower Cab	Aux Cab	D
275	In WDG4G/6G loco traction alternator is located in	Engine Cab	Operator Cab	Blower Cab	Aux Cab	C
276	In WDG4G/6G loco APU is located in	Engine Cab	Radiator Cab	Blower Cab	Aux Cab	B
277	In WDG4G/6G loco Air compressor is located in	Engine Cab	Radiator Cab "B" side	Blower Cab	Radiator Cab "A" side	B
278	In WDG4G/6G loco TM blower is located in	Engine Cab	Radiator Cab "B" side	Blower Cab	Radiator Cab "A" side	D
279	In WDG4G/6G loco Exh blower is located in	Engine Cab	Radiator Cab	Blower Cab	Aux Cab	B
280	In WDG4G/6G loco oil cooler is located in	Engine Cab	Radiator Cab "B" side	Blower Cab	Radiator Cab "A" side	B
281	In WDG4G/6G loco lube oil filter is located in	Engine Cab	Radiator Cab "B" side	Blower Cab	Radiator Cab "A" side	B
282	In WDG4G/6G loco POU is located in	Engine Cab	Radiator Cab "B" side	Blower Cab	Radiator Cab "A" side	B
283	Weight of WDG4G locomotive (in tons)	132	126	130	138	A
284	Type of engine in WDG4G/6G locomotive is	2 Stroke SI	2 Stroke CI	4 Stoke SI	4 Stroke CI	D
285	Number of radiator fans in WDG4G locomotive	1	2	3	4	A
286	In WDG4G/6G locomotive radiator fans driven by	AC motors	Gear	Bets	Engine	A
287	Type of brake system in WDG4G/6G locomotive	Wabtec Fast Brake	IRAB1	CCB	None	A
288	Maximum speed of WDG4G/6G locomotive (in Kmph)	105	100	110	120	B
289	Maximum wheel diameter in WDG4G/6G locomotive (in mm)	1030	1100	1092	1050	C
290	Minimum wheel diameter in WDG4G locomotive (in mm)	1030	1016	1020	1050	B
291	Maximum Starting tractive effort in WDG4G locomotive (in KN)	544	454	540	570	A
292	Maximum continuous tractive effort in WDG4G locomotive (in KN)	544	405	420	425	B
293	Fuel tank capacity in WDG4G locomotive (in litres)	5000	8000	6000	6500	C
294	Coolant capacity in WDG4G locomotive (in litres)	1249	1100	1210	1468	A
295	Lube oil sump capacity in WDG4G locomotive (in litres)	1030	1457	1300	1110	A
296	Total sand capacity in WDG4G locomotive (in litres)	630	600	340	200	C
297	Type of air compressor in WDG4G/6G locomotive	Reciprocating	Rotary screw	Centrifugal	None	B
298	In WDG4G/6G locomotive air compressor is driven by	Engine	Gear	Belts	AC motors	D
299	Type of bogie in WDG4G/6G locomotive	CO-CO fabricated	CO-CO Cast	BO-BO Tri mount	None	A
300	Number of battery boxes in WDG4G/6G locomotive	2	4	8	16	A
301	Air compressor lube oil capacity in WDG4G locomotive (in liters)	22	25	30	35	B
302	Maximum RPM of WDG4G locomotive engine	950	1050	1100	1000	B
303	Number of positions in Auto handle of EBV in WDG4G/6G loco	4	3	5	2	C
304	Bp pressure in REL position of Auto Handle of EBV In WDG4G/6G loco	5 kg/cm ²	5.5 kg/cm ²	6 kg/cm ²	4.5 kg/cm ²	B
305	Bp pressure in RUN position of Auto Handle of EBV In WDG4G/6G loco	5 kg/cm ²	5.5 kg/cm ²	6 kg/cm ²	4.5 kg/cm ²	A
306	Bp pressure in MIN position of Auto Handle of EBV In WDG4G/6G loco	5 kg/cm ²	3.5 kg/cm ²	4 kg/cm ²	4.5 kg/cm ²	D
307	Bp pressure in FS position of Auto Handle of EBV In WDG4G/6G loco	2 kg/cm ²	2.5 kg/cm ²	3.4 kg/cm ²	4.5 kg/cm ²	C

308	In WDG4G/6G loco before changing the position of EBV mode switch ensure -----	Loco speed zero	Rev 'centre'	A9 -FS	All of the above	D
309	MTB (Multi Task Circuit Breaker) provides power and protection to	IPM of EAB	Air Dryer	Both 'A' & 'B'	None	A
310	Number of positions in EC (Engine Control) switch in WDG4G/6G loco	1	2	3	4	C
311	Positions in ECS of WDG4G/6G locomotive	OFF	ISOLATE	RUN	All the above	D
312	TE limit toggle switch is located in	Control Desk	EC Panel	Auxiliary Cab	None	B
313	When TE limit switch in 'Limited' position, TE will not exceed	294 KN	350 KN	345 KN	250 KN	A
314	AEB toggle switch is in 'ON' position loco speed will be limited to	20 KMPH	25 KMPH	30 KMPH	10 KMPH	C
315	In WDG4G loco POU (Pneumatic Operating Unit) is located in	Loco A side – in Radiator Cab	Loco B side – in Radiator Cab	Loco A side – in Engine Cab	Loco B side – in Engine Cab	B
316	In WDG4G loco Dead Engine coc is located in	POU	EBV	Operator Cab	C12	A
317	Maximum Independent Brake cylinder pressure in WDG4G/6G loco (in Kg/cm ²)	3.5	2.5	5.2	5	C
318	Maximum BC pressure in Auto Handle Min position in WDG4G/6G loco (in Kg/cm ²)	1.1	2.5	3.5	1.8	A
319	Maximum BC pressure in Auto Handle FS position in WDG4G/6G loco (in Kg/cm ²)	1.1	2.5	3.5	1.8	D
320	Maximum BC pressure in Auto Handle EMER. position in WDG4G/6G loco (in Kg/cm ²)	1.1	2.5	3.5	1.8	D
321	Maximum BC pressure in pneumatic backup mode in WDG4G/6G loco (in Kg/cm ²)	1.1	2.5	3.6	5	C
322	To setup brake system for pneumatic backup, _____ switch to be operated	Pneumatic backup knob	PCSS	A & B	none of the above	C
323	In WDG4G/6G ,Before changing the mode switch position in EBV, ensure Auto handle in _____ position	REL	RUN	MIN	FS	D
324	In WDG4G/6G loco parking brake cylinder coc is located in	A side of locomotive in Undert truck	B side of locomotive in Undert truck	Pneumatic rack	None of the above	B
325	In WDG4G/6G Compressor governor switch or main reservoir sensor is located in	C12	C13	CA9	CA5	A
326	In WDG4G/6G loco Number of BC coc's	1	2	3	4	B
327	In WDG4G/6G loco, Brake Cylinder coc's located in	A side of the loco in Under truck	B side of the loco in Under truck	POU	RLA	B
328	In WDG4G/6G loco Number of Parking Brake Cylinder coc's	1	2	3	4	B
329	In WDG4G /6G loco, Parking Brake Cylinder coc's located in	A side of the loco in Under truck	B side of the loco in Under truck	Pneumatic rack	None of the above	B
330	parking brakes are available at-----wheels of WDG4G/6G	1,6,7,11,	1,4,5,8	2,6,7,11	1,5,8,12	D
331	In WDG 4G loco CA9 is located in	'A' side of Radiator Cab	'B' side Radiator cab	'B' side Radiator of LH end	Aux Cab	B
332	In WDG 4G loco CA12 is located in	'A' side of Radiator Cab	'B' side Radiator cab	Blower Cab	Aux Cab	A
333	Which Control Area (CA) is also known as 'Transducer Box'	CA9	CA5	CA12	CA13	C
334	Min. fuel oil level to be maintained in WDG4G locomotive is(Ltr)	500	1000	1500	1200	B

335	Min. fuel oil level to be maintained in WDG6G locomotive is(Ltr)	500	1000	1500	1200	C
336	Parking brake transducer located in ----	C12	POU	RLA	CA9	C
337	In WDG4G loco MR sensor cut out cock is located in	CA4	CA5	CA12	CA13	C
338	Color of humidity Indicator when air dryer is operating correctly	Red	White	Blue	Brown	C
339	In WDG4G/6G loco water sight glass is located on	'A' side of Radiator cab	'B' side of Radiator cab	'A' side of Blower cab	'B' side of Blower cab	A
340	In WDG4G/6G loco main water drain valve is located in	'A' side of the locomotive	'B' side of the locomotive	h 'A' & 'B'	None	A
341	In WDG4G/6G loco Fuel injection POP test switch is located in	Near Alternator, 'A' side of the locomotive	Near Alternator, 'B' side of the locomotive	Engine Cab	Radiator Cab	A
342	Dead engine selection switch located in ----	CA12	CA9	CA13	CA1	C
343	In WDG4G/6G loco Turbo super charger is located in	Engine Cab	Blower Cab	Radiator Cab	Auxiliary Cab	A
344	In WDG4G/6G loco fuel pump motor is located in	'A' side of Engine Cab	'B' side of Engine Cab	'A' side of Radiator Cab	'B' side of Radiator Cab	A
345	In WDG4G/6G loco water pump is located in	'A' side of Engine Cab	'B' side of Engine Cab	'A' side of Radiator Cab	'B' side of Radiator Cab	A
346	In WDG4G/6G loco lube oil pump is located in	'A' side of Engine Cab	'B' side of Engine Cab	'A' side of Radiator Cab	'B' side of Radiator Cab	B
347	In WDG4G/6G lube oil cooler is located in	'A' side of Engine Cab	'B' side of Engine Cab	'A' side of Radiator Cab	'B' side of Radiator Cab	B
348	In WDG4G/6G loco lube oil filter drum is located in	'A' side of Engine Cab	'B' side of Engine Cab	'A' side of Radiator Cab	'B' side of Radiator Cab	B
349	In WDG4G/6G loco exhaust blower motor is located in	'A' side of Engine Cab	'B' side of Engine Cab	'A' side of Radiator Cab	'B' side of Radiator Cab	A
350	In WDG4G/6G loco traction blower motor is located in	'A' side of Engine Cab	'B' side of Engine Cab	'A' side of Radiator Cab	'B' side of Radiator Cab	A
351	In WDG 4G/6G loco Auto stop override switch is available at	RLA	EC2	EC1	POU	C
352	Defogger function is-----	to operate wiper	to heat the look out glass	to sprinkle the water	None of the above	B
353	In WDG4G/6G auto start disable switch is located in ----	CA12	CA9	CA1	CA13	C
354	VCD can be acknowledged through	operating lead axle sand switch	operating any soft key of TCD	Both 'A' & 'B'	None	C
355	What happens if EC switch kept in isolate position in lead loco of WDG4G MU	Lead loco power will not come	Trail loco power will not come	both locos power will not come	both locos power will come	C
356	What happens if GFbreaker kept in OFF position in lead loco of WDG4G MU	Lead loco power will not come	Trail loco power will not come	both locos power will not come	both locos power will come	C
357	In W DG4G , if override switch operated ----- happens	main engine will not shut down upto 10min.	main engine will not shut down upto 30min.	APU will not shut down upto 30min.	APU will not shut down upto 10min.	B
358	In WDG 4G loco number of display units in each cab	1	2	3	4	D
359	In WDG4G loc EC1 is located in	Cab 1	Cab2	Both Cab1 & Cab2	None	A

360	In WDG4G loc EC1 is located in	Cab 1	Cab2	Both Cab1 & Cab2	None	B
361	In WDG 4G loco battery knife switch is located in	EC1	EC2	Both EC1 & EC2	None	A
362	compressor oil should be checked while engine is in ----- condtion	idle	shutdown	ater 15min. From shutdown	running	C
363	In WDG6G loco, feed valve cutout cock is available at	wheel no.1	wheel no.6	wheel no.7	wheel no.5	A
364	Number of Control Areas (CAs) in WDG4G/ 6G locomotive	6	8	12	13	B
365	In WDG4G locomotive MR cut in pressure (in kg/cm ²)	6	7	8	10	C
366	In WDG4G locomotive MR cut out pressure (in kg/cm ²)	6	7	8	10	D
367	what happens if press the parking brake release button in lead locomotive	lead loco parking brakes only will release	lead loco parking brakes only will release	both locos parking brakes will release	None of the above	A
368	what happens if EC switch turns to OFF position in WDG4G/6G while changing the cab in single loco	parking brake will not apply automatically	parking brake will apply automatically	Alarm will not come	both B and C	A