

Expand the following

- 1) RITES
- 2) IRIEEN
- 3) COFMOW
- 4) RDSO
- 5) CORE
- 6) FOIS
- 7) COIS
- 8) IVRS
- 9) CRIS
- 10) IRISSET

11. Electrolyte used in cell is _____

- | | |
|-----------------------|-----------|
| a) H_2SO_4 | b) HCL |
| c) Diluted $H_2 SO_4$ | d) H_2O |

12 If two single passes applies at a time, the route will be

- | | |
|------------------|--------------|
| a) same | b) different |
| c) not permitted | d) a or b |

13 In twin Beam headlight the rating of bulb is _____

- | | |
|------------------|-------------------|
| a) 24V, 70/75W | b) 24V, 90/100 W |
| c) 110V, 70/75 W | d) 110V, 90/100 W |

14. Official language day is

- | | |
|-------------------------------|-------------------------------|
| a) 16 th September | b) 15 th September |
| c) 13 th September | d) 14 th September |

15 Averted collision comes under _____ classification of accident.

- | | |
|----------------------|-------------------------|
| a) Unusual incidents | b) Indicative accidents |
| c) Train accidents | d) Equipment failure |

16. Number of days can be granted as quarantine leave.

- | | | | |
|-------|-------|-------|-------------------------------|
| a) 15 | b) 20 | c) 25 | d) this leave is not existing |
|-------|-------|-------|-------------------------------|

17. Loss of one thumb will comes under _____ % of disablement.

- | | | | |
|--------|--------|---------|---------|
| a) 10% | b) 30% | c) 50 % | d) 70 % |
|--------|--------|---------|---------|

18. S-1313 form used for

- a) stocked item b) Non-stocked item
- c) local purchase d) short tender

19. In the event of engine Horns failure, on clearing the block section cautiously, if the driver is unable to repair, then he shall

- A: Work onwards on same condition B: Ask for relief engine
- C: Ask PCO number D: None of the above

20. If any fault exists Aux.power circuit of microprocessor loco, that will be indicated through _____

21. RGE2 connected on _____ pipe line

22. Beyond _____ years age son not eligible for privilege pass.

23. Number of post retirement passes for group-‘C’ 33 years service completed retired employee is _____

24. _____ is suspension revoked standard form.

25. A retired Railway employee shall not have morethan _____ cases to act as defence helper.

26. The workmen compensation act in force with effect from _____

27. Expand the PNM _____

28. Maternity leave will be sanctioned for ____ days for _____ employees. (T)

29. ____ days shall be admissible for leave encashment. (T)

30. A Railway employee after retirement may permit ____ days to retain the Railway quarters. (T)

31. Expand LHAP_____ (T)

32.After ordering within _____ minutes the ART should leave.

33.The running staff _____national holidays may be availed in a calendar year (T)

34. The abbreviation of RDSO _____ (T)

35. In ABCB loco, _____ coil is used for closing the DJ (T)

36.In WAG7 loco, VEULs energisation and time lag of last CP is maintained by _____

37. Improper working of ARNO will be known by _____ tripping failure

38. If C105 not closed, try by changing ____ switch to '3' position
39. To avoid wheel skidding, ____ to be pressed, while applying A9
40. If L1 or L6 not closed, ____ traction failure will be experienced
41. Setting of QLM relay in WAG7 loco is..... amps against a power circuit current of ... (T)
42. One end of QOA relay is connected to..... and the other end to.... (T)
43. Power rating of WAG7 main transformer is and for WAG5 is
44. DJ will close, when QPDJ pressure is at Kg/cm² and will trip when it comes to Kg. /cm². (T)
45. Which relay ensures that DJ is closed only on no load? (T)
46. The wheel diameter on new Mm and permitted up to mm (T)
47. Permissible root wear is mm and the flange wear is mm. (T)
48. Setting of QD relay in WAG7 loco is ... A
49. Notch by notch progression is ensured by Relay (T)
50. SMGR control circuit is protected from earth fault by control fuse and the fuse rating is
51. Schedule is carried out on electric locomotive at the nominated workshops. (T)
52. Rating of each battery in locomotive is ... and the total voltage is V
53. LSDJ flickering is the symptom of
54. Q-30 relay is termed as.... and it will cause tripping of DJ through
55. Continuous current rating of TAO659 TM is amps and 10 min. rating is
56. Continuous current rating of Hitachi TM is amps and 10 min. rating is
57. Brake application through A-9, BC pressure goes up to kg/cm² in seconds.
58. Permissible piston stroke on BC cylinders during brake application is (T)
59. Type of cut out cock used in bogie brake isolation is
60. Q20 is termed as.....relay and its setting is V (T)
61. Auto regression will take place when DJ is tripped on notches, through relay

62. QCVAR connected across..... & terminals
63. Relay QCVAR picks up at Volts to open contractor
64. Setting of P2 pressure switch in AFL circuit is& kg/cm²
65. During progression & regression will close on all ½ notches and will come into circuit.
66. Tap changer taps are making & braking on no load is ensured by
67. Transition time of GR contracts from one tap to another tap is
68. If GR stuck up in ½ notch due to any reason for more than sec. then
69. Expand the abbreviation ESMON.....
70. Medha make ESMON module will have a short term memory of hours and a long term memory of
71. AAL make ESMON module is termed as and its short term memory is
72. Use of Rheostatic braking will minimize on brake gear.
73. Change over of working etween braking traction takes place by
74. On load operation of reversors & CTFs are avoided by relay
75. Relay QE monitors the current and QF relay monitors the.....current.
76. Time delay in closing contractors C107, C105 & C106 is sec.
77. C108 Contactor controls ----- Motor
78. Buffer height limits----- (T)
79. Rail guard height is ----- (T)
80. In twin Beam headlight the rating of bulb is _____ (T)
81. In a twin beam Head light, what is the voltage of bulb in “dimmer” Operation.
82. What is the advantage of twin beam headlight system
83. At the time of wheel slip, the object of sanders is to
84. Specific gravity of electrolyte is measured using:
85. DC series motor is used for traction purpose because
86. Battery negative is connected to loco body through
87. Hitachi Traction motor is a _ pole ____ motor (T)

88. Max.starting torque offered by WAG7 loco is.....
89. Purpose of inter pole in the traction motor.
- 90 RHOBA resistance is _____ ohms
91. In WAP4 loco the standard setting of RGEB 2 cut in/cut out _____ (T)
- 92 . In WAP4 loco the Duplex check valve is set at _____
93. Capacity of battery provided in electric loco is_____amph (T)
94. Bibby Coupling is provided to couple _____
95. The class of insulation used in Hitachi Traction Motor is _____
96. The setting value of QD relays ____ DC amps pick up ____ DC amps drop out (T)
97. What is the Gear ratio of a wheel set in WAP4 _____ (T)
98. What is the diameter of an Axle _____?
99. What is the height of the buffer _____? (T)
100. What is the height of the rail guard_____? (T)
- 101 Periodicity of POH schedule for coaching locos____ (T)
- 102 Periodicity of IOH schedule for coaching locos_____ (T)
- 103 Periodicity of AOH schedule for coaching locos_____ (T)
- 104 Periodicity of IC schedule for coaching locos_____ (T)
- 105 Periodicity of IB schedule for coaching locos_____
- 106 Transformer breather used for_____ (T)
- 107 The HP of MVSL is _____
- 108 The maximum rpm of a Hitachi Traction Motor is
- 109 Main transformer is having _____number of taps totally.
- 110 Flickering of LSDJ is called _____ tripping failure.
111. Time required to travel for GR from 0-32 notches is _____
- 112 MPS can be operated from _____ notch for field weakening
113. Q46 energises when _____ (T)
114. Feed pipe is painted with _____ colour. (T)

115. Purpose of RPS is _____
116. Whenever QCVAR becomes defective, starting phase to ARNO to be cut off by de-energizing _____
117. If C-105 is not closed, _____ failure will be experienced
118. After closing DJ, if C-118 coil not de-energised, it leads to _____
119. Permanent de-energisation of Q52 leads to _____ traction failure
120. When DJ is opened on notches auto regression takes place by _____ relay.
121. If MVMT-1 is defective, _____ tripping failure will be experienced
122. If MVSI-1 is defective, _____ tripping failure will be experienced
123. Melting of CCPT causes _____ tripping failure.
124. When ZPV on '3', _____ contactor will isolate & _____ PV will isolate
125. Auto-regression on 1st notch with LSP due to _____
126. Earth fault in SL 1 causes _____
127. Direct auxiliaries are provided to protect ARNO from _____
128. OHE of AC Traction is fed by _____
129. Volt meter is connected in _____ to the circuit
130. Resistance is _____ proportional to cross sectional area of the conductor. (T)
131. In electric traction loco, Traction motors are _____ type
132. Rate of flow of current per sec. in the circuit is called _____
133. Electrolyte used in cells of electric loco battery is _____ (T)
134. DC Motor working principle _____
135. When Q44 is wedged, _____ to be avoided
136. Earth fault in MVSL-1 causes tripping of DJ through _____ relay.
137. In modified panto circuit, when DJ locked mechanically, then Pantograph _____
138. Pantograph is mounted on _____ number of base insulators
139. Single bottle vertical type VCB control circuit will have _____ number of branches
140. In VCB loco, if DJ trips just before releasing BLRDJ, conclude _____ I/L is defective
141. For Twin pipe air brake system _____ & _____ air hoses to be coupled.
142. TFWA feeds _____ Volts of supply to ARNO

143. ET-1 and ET-2 are to protect against _____ (T)
144. When Q20 is energised, _____ lamp will glow.
145. QOP is provided in _____ circuit (T)
146. RF resistances are cooled by _____
147. To test the condition of a fuse, _____ is provided
148. LSB controlling relay is _____
149. If CHBA fails _____ lamp will glow (T)
150. If Q51 energises, _____ takes place
151. When HCP is kept on '2' position, _____ coil gets energised.
152. QWC relay remains energised as long as _____ is pressed when GR is on '0' or 1st notch then, automatically de-energises after 10th notch in WAG7 locomotive.
153. When PSA is pressed from Cab-1, VESA No. _____ & _____ will energise.
154. While starting loaded train, _____ & _____ switches to be pressed to avoid QD action
155. If _____ relay de-energises, loco brakes will not release by pressing PVEF.
156. Earth fault in Q119 coil causes _____
157. In WAP4 loco, to isolate TM 4 _____ switch to be kept on _____ position
158. In DC-DC converter, twin beam headlight provided with _____ lamps/ bulbs
159. Defective QCVAR causes _____ tripping failure.
160. In Static converter loco, 3 E.M. contactor for MVRF is _____
161. If any un-loader valve is stuck up and discharging air, trouble can overcome by _____
162. If rear cab BL is not locked properly, it leads to _____
163. If QPH is defective, work the train by keeping _____ on _____ position and duly follow necessary precautions
164. Earth fault in CHBA causes _____ relay to energise (T)
165. In microprocessor loco, fault, if any, will be indicated through _____
166. When A9 is applied to emergency, the pressure admitted to loco brake cylinder is _____
167. In Static converter loco, _____ should not be wedged under any circumstances
168. For quick recharging of BP pressure, _____ switch to be pressed

169. In Microprocessor loco, during ICDJ _____ fuses to be checked
170. Puncture of diode in RSI block causes _____ lamp to glow
171. Total number of roof bars including hand operated Roof Bars in WAP-4 loco is _____
172. RGR is connected between _____
173. Airflow measuring valve is connected between _____ & _____
174. If Q30 N/O I/L is defective _____ relay can be wedged to work the train further
175. If LSCHBA glows on run, _____ & _____ to be checked.
176. Q44 is called as _____ relay (T)
177. Notch by notch progression or regression is done by _____ relay
178. While wedging AC 3 contactor, ensure _____
179. Defective Q 50 causes _____ traction failure
180. Defective Q30 causes _____
181. Earth fault in QCVAR causes _____
182. While closing DJ, earth fault in TFWA causes _____
183. QD-2 is connected between _____ & _____ Traction Motors in WAP-4 loco (T)
184. QD actions are _____
185. Earth fault in C-118 coil causes _____
186. Pantograph is not raising due to _____
187. Location of Pantograph lowering spring is _____
188. If pantograph raising spring is broken and fallen on loco roof, it causes _____
189. Normally, starting phase to ARNO cut off automatically by _____
190. Cut in the TFWA winding causes _____
191. The electrical braking is effected by _____ contactors
192. RSI-2 block supplies current to _____ in WAP-4 loco
193. ICDJ trouble will be experienced due to _____ fuses melting
194. Appropriate air pressure in the system is maintained by _____
195. A34 terminal cut causes _____ traction failure.
196. Loco earthing switch is _____

197. Slipped pinion causes _____
198. Purpose of A-1 Differential valve is _____
199. Breaking of roof insulator or base insulator leads to _____
200. WAP4 Loco will have _____ type of bogie (T)
201. RF resistances are provided _____
202. On releasing SA9, pressure in the brake Cylinders will escape through _
203. The purpose of QTD101 relay is _____ in static converter locomotive
204. Additional fuse provided in loco is _____
205. RSI-2 block supplies Current to _____ in WAP4 loco
206. Minimum pressure required for energising of any electro valve in loco is __ kg/cm²
207. Working pressure of SMGR _____ kg/cm²
208. GR Full notch Protection relay is _____
209. MCB TFS is related for the function of _____
210. Normal Height of contact wire from Rail level is _____
211. On run if CCBA fuse melts, _____
212. Length of Section Insulator type Neutral Section is _____ Meters
213. QCVAR is provided for the protection of _____ (T)
214. In dead loco, to avoid wheel skidding _____ to be isolated
215. If time taken to pass One km is 80 seconds, the speed of the train is _____ Kmph. (T)
216. Standard span length between two Traction masts on straight line _____ Meters
217. QLM is available in _____ circuit (T)
218. DCP type fire extinguisher can be used for _____
219. Fire extinguisher used on Electric traction loco is _____
220. Earth faults in SL-2 causes tripping of DJ through _____
221. WAP-4 loco will have _____ number of Main reservoirs
222. R-1 COC location in WAP-4 loco is _____
223. Total number of brake cylinders provided in WAP-4 loco is _____ (T)
224. Type of bogie provided in WAM-4 loco is _____ (T)

225. Horsepower of WAP-4 loco is _____
226. Improper working of ARNO will be known by _____ tripping failure
227. To avoid wheel skidding, _____ to be pressed, while applying A9
228. If L1 or L6 not closed, _____ traction failure will be experienced
229. Earth fault in auxiliary control circuits causes, melting of _____ fuse
230. Before conducting LT test, ensure _____
231. If SL2 had earth fault, DJ will trip through _____ relay
232. Modified Pantograph pan will have, _____ in place of wearing strips (T)
233. If C145 coil is having earth fault _____ fuse will melt.
234. Modified RGCP setting is _____ Kg/cm^2 (T)
235. Defective Air Dryer leads to _____
236. Unless GR is in _____ notch, DJ cannot be closed (T)
237. In WAG 5 loco, If all line contactors are not closed, check _____ COC
238. If C107 contactor not closed, _____ tripping failure will be experienced
239. QD1 energises at _____ amps in modified locos.
240. Earth fault in MVMT1 causes tripping of DJ through _____ relay (T)
241. In WAM4P loco, _____ No. of motors will start along with ARNO
242. Nomenclature of MU2B is _____
243. Minimum Brake pipe pressure should be _____ Kg/cm^2 in locomotive and _____ Kg/cm^2 in brake van of a train having 58 vehicles
244. Minimum FP pressure should be _____ Kg/cm^2 in locomotive and _____ Kg/cm^2 in SLR of a 10 vehicles coaching train (T)
245. Q20 actions are _____ (T)
246. P1 is provided on _____ pipe line (T)
247. If time taken 40 seconds to pass one KM, the speed is _____ KMPH. (T)
248. On modified locos, TM meters connections in cab1 are _____ & in cab2 are _____
249. Earth fault in ARNO capacitor bank causes tripping of DJ through _____ relay.
250. In modified locos, ARNO is replaced with _____
251. On modified WAP4 loco, RF resistances are cooled by _____

252. The length of PTFE neutral section is _____ Meters
253. Though MVRH is working, if QVRH is not energised, it leads to _____
254. Pressure setting of CP individual SS is _____ kg/cm²
255. GD80E filter is connected in between _____ and _____
256. Signaling relay for LSGR is _____
257. Capacity of CCA fuse is _____ Amps.
258. Tap changer control circuit is controlled by _____ fuse
259. Output supply of Static converter is _____
260. When BP drops and A9 is in release _____ starts functioning.
261. Static converter input supply is _____ volt & out put supply is _____ Volts
262. a7 & a8 Bushings are belongs to _____ Secondary Winding
263. In WAP4, center pivot will carry _____% and Bolster will carry _____% of load.
264. If QVMT2 is not energised, _____ tripping failure will be experienced (T)
265. Capacity of RGR is _____ Ω
266. Purpose of pantograph pan tilting modification is _____
267. Fault memory capacity of Medha make Microprocessor is _____
268. Purpose of Additional CCBA is _____
269. Three phase loco works on the principle of (T)
- | | |
|----------------|-----------------------------|
| a. VVVF | b. VFVF |
| c. VVVV | d. None of the above |
- 270.** Three phase loco is provided with number of roof bars.
- | | |
|-------------|---------------|
| a. 2 | b. 3 |
| c. 4 | d. 3+3 |
- 271.** SS 06 belongs to sub system.
- | | |
|-------------------------------------|-------------------------------------|
| a. Auxiliary converter No. 1 | b. Auxiliary converter No. 2 |
| c. Auxiliary converter No. 3 | d. Traction converter No. 1 |
- 272** To isolate panto No. 1 keep panto selector switch in position.
- | | |
|----------------|----------------------|
| a. Auto | b. I |
| c. II | d. I & II |

- 273 To put on flasher light to be operated.
- a. AFL
 - b. BPFL
 - c. ZFL
 - d. Auto brake
274. SS 03 belongs to
- a. Traction bogie 1
 - b. Traction bogie 2
 - c. Main power
 - d. Harmonic filter
- 275 Three phase scavenging blower filters dust from
- a. Oil cooling blower
 - b. Bogie blower
 - c. Machine room blower
 - d. Oil cooling blower & Bogie blower
- 276 SS 01 belongs to sub system.
- a. Traction bogie 1
 - b. Traction bogie 2
 - c. Main power
 - d. Harmonic filter
277. For charging of BP pressure COC to be kept open.
- a. A 8 COC
 - b. 70 COC
 - c. 74 COC
 - d. 47 COC
278. In train engine, if ZBZN is switched ON, ... happens.
- a. BP pressure drops to 'O'
 - b. FP pressure drops to 'O'
 - c. BC pressure raises to 3.5 kg/cm^2
 - d. None of the above
279. SS 02 belongs to sub system.
- a. Traction bogie 1
 - b. Traction bogie 2
 - c. Main power
 - d. Harmonic filter
280. Location of PBBUS in knorr brake loco is
- a. Pneumatic panel
 - b. Auxiliary manifold
 - c. Air brake manifold
 - d. Below direct brake handle
281. Three phase loco is equipped with No. of three Ø auxiliary motors.
- a. 16
 - b. 22
 - c. 12
 - d. 13
282. Procedure for quick charging of BP pressure in three Ø loco is
- a. Press BPVG
 - b. Keep A9 in release position
 - c. Press PVEF
 - d. Press 'Emergency stop' switch
283. In knorr brake loco pneumatic panel have number of portions.
- a. 1
 - b. 2

c. 3

d. 4

284. Machine room blowers & their scavenging blowers works in Mode(s).

a. Driving mode only

b. Cooling mode only

c. Off

d. Driving mode & Cooling mode

285. Totally, three phase loco have number of additional COCs.

a. 4

b. 8

c. 16

d. 2

286. To isolate Auxiliary converter No. 2, open MCB No. located in SB 2.

a. 127.22/1

b. 127.22/2

c. $127.22/3$

d. 127.2

287. SS 05 belongs to sub system.

a. Harmonic filter

b. Hotel load

c. Battery

d. Batteries

288. When parking brakes are applied BP pressure drops up to kg/cm² in knorr brake loco.

a. 3 kg/cm^2

b. 3.8 kg/cm^2

c. 3.5 kg/cm^2

d. 2 to 3 kg/cm²

289 Auto brake valve have number of positions in knorr brake loco.

a. 5

b. 6

c. 2

d. 4

290. WAP 7 loco is fitted with type of traction motors.

a. 3 Ø Asynchronous motor

b. TAO 659

c. Hitachi

d. Hitachi or TAO 659

291. WAG 9/ WAP 7 have numberof(T) (T)rrr of br of brake blocks.

a. 12

(T)

b. 24

c. 48

d. 64

292. Continuous glowing of LSFI indicates

a. Priority 1 fault

b. One of the sub system is isolated

c. Priority 2 fault

d. Priority 1 fault or Priority

- a. 16 Dampers.

b. 20 Dampers.

c. 40 Dampers.

d. 10 Dampers.

304. Three phase loco is provided with number of auxiliary converter(s). (T)

a. 1

b. 2

c. 3

d. 4

305. In modified WAP 7 loco, ... wheels are provided with parking brakes.

a. 2, 6, 7 & 11

b. 2 & 11

c. 1, 4, 5 & 8

d. 6 & 7

306. Three Ø loco have No. of 3 phase auxiliary motors in under frame. (T)

a. 2

b. 4

c. 12

d. 8

307. Location of MCP 1 is

a. In machine room No. 1

b. In machine room No. 2

c. Below machine room No. 2

d. Below machine room No. 1

308. Oil cooling blower cools (T)

a. TFP oil

b. SR oil

c. TFP oil & SR oil

d. Traction motors

309. Traction motors works with the principle of (T)

a. VVVF

b. VFVF

c. VVVV

d. None of the above

310. For application of parking brakes speed should be

a. Below 5 Kmph

b. Above 5 Kmph

c. Below 1.5 Kmph

d. Zero Kmph

311. SS 16 belongs to sub system.

a. Cab 2

b. Fire detection

c. Memotel (Speedometer)

d. Processor FLG1

312. Normal position of panto selector switch is

a. Norm

b. I

c. II

d. Auto

313. Location of FDU is

a. SB 1

b. SB 2

c. HB 2

d. Panel ‘C’

314. Battery voltage in three phase loco should be (T)
- a. Above 85 Volts
 - b. Above 90 Volts
 - c. Above 92 Volts
 - d. Above 110 Volts
- 315 Three phase loco is equipped with number of battery boxes. (T)
- a. 2
 - b. 4
 - c. 6
 - d. 32
316. Horse power of WAP 7 is
- a. 5440 HP
 - b. 5000 HP
 - c. 8000 HP
 - d. 6120 HP
317. Three Ø loco is equipped with number of single Ø auxiliary motors. (T)
- a. 12
 - b. 4
 - c. 8
 - d. 13
318. For CHBA, MCB No. is input and located in
- a. 100 & 110
 - b. 110 & 100
 - c. 112.1 & 110
 - d. 112 & 112.1
319. Over current relay in three Ø loco is
- a. 86
 - b. 70
 - c. 78
 - d. 74
320. If TFP oil temperature increased to ⁰C for 10 seconds, loco will shut down.
- a. 84⁰C
 - b. 70⁰C
 - c. 80⁰C
 - d. 47⁰C
321. OHE working range of three phase loco is KV. (T)
- a. 17.5 KV & 30 KV
 - b. 17 KV & 30 KV
 - c. 17.5 KV & 30.5 KV
 - d. 17 KV & 30.5 KV
322. SS 18 belongs to sub system.
- a. Fire detection
 - b. Memotel
 - c. Processor FLG 1
 - d. Processor FLG 2
323. Location of CHBA is
- a. Machine room No. 1
 - b. Machine room No. 2
 - c. BUR 1
 - d. BUR 2

324. To close the DJ, ensure node information on screen.
- a. FLG 504
 - b. FLG 550
 - c. FLG 570
 - d. FLG 590
325. To isolate panto No. 1 keep panto selector switch in position.
- a. Auto
 - b. I
 - c. II
 - d. I & II
326. In three Ø loco each battery box is provided with number of batteries. (T)
- a. 13
 - b. 26
 - c. 3
 - d. 39
327. Actions of emergency stop push button in three Ø loco are
- a. VCB trips
 - b. Panto lowers
 - c. TE/BE comes to 'O'
 - d. All the above
328. Procedure of resetting VCD in WAG 9 / WAP 7 loco is
- a. Keep throttle in 'O'
 - b. Wait for 160 Seconds
 - c. Press BPVR
 - d. All the above
329. Location of MCP 2 in three Ø loco is
- a. Loco left side
 - b. Loco right side
 - c. Machine room No. 1
 - d. Machine room No. 2
330. SS 17 belongs to sub system.
- a. Fire detection
 - b. Memotel
 - c. Processor FLG 1
 - d. Processor FLG 2
331. Procedure of isolating VCD is
- a. 154 in '1'
 - b. 154 in 'O'
 - c. 237.1 in '1'
 - d. 237.1 in 'O'
332. CHBA is getting supply from (T)
- a. Auxiliary converter No. 1
 - b. Auxiliary converter No. 2
 - c. Auxiliary converter No. 3
 - d. Traction converter No. 1
333. If battery voltage drops below volts, loco will shut down. (T)
- a. 82 Volts
 - b. 87 Volts
 - c. 90 Volts
 - d. 92 Volts

334. For CHBA, MCB No. is output and located in

a. 110; SB 1

b. 110; SB 2

c. 100; HB 1

d. 100; HB 2

335. For isolation of Auxiliary converter No. 1 trip MCB No.

a. 127.22/1 in SB 1

b. 127.22/1 in SB 2

c. 127.22/2 in SB 1

d. 127.22/2 in SB 2

336. VCD is required to acknowledge after attaining of kmph of train speed.

a. 5 kmph

b. 1 kmph

c. 1.5 kmph

d. 15 kmph

337. A Railway servant may be placed under suspension:---

(A) where a disciplinary action for imposition of minor penalty is pending

(B) where a disciplinary action for imposition of major penalty is pending

(C) Where a fact-finding inquiry is pending on a report against him.

(D) Where a case against him in respect of a Civil Suit is pending in a Court of Law.

338. The headquarters of a railway servant under suspension shall be :---

a. The place where the Divisional headquarters is located.

b. The place where his family is residing

c. His last place of duty.

d. No station since he is not performing duties.

339. Find out the deductions which should not be made from the subsistence allowance :---

a. Rent for quarters.

b. Income Tax

c. LIC Premia

d. Subscription to PF

340. One of the following is not a major penalty. Find out.

a. Reduction to lower service / post / grade for a specified period without loss of seniority.

b. Reduction to lower service / post / grade for a specified period with loss of seniority.

c. Reduction to lower stage in time scale of pay for 4 years (NR).

d. Withholding of increment with recurring effect for a period of 6 years.

341. One of the following is an irregular penalty. Find out.

a. Withholding of increment with recurring effect.

- b. Withholding of increment with loss of seniority.
- c. Withholding of increment exceeding 3 years.
- d. Withholding of increment not exceeding 6 months.

342. An Enquiring Authority appointed to hold an inquiry against a railway servant :-

- a. should be incharge supervisory official of the unit of charged official.
- b. should be gazetted officer.
- c. should be higher than the charged official.
- d. should be one who is immediately in lower grade to Disciplinary authority.

343. Annexure III to SF 5 is :--

- a. A list of Articles of Charges.
- b. Statements of imputations of misconduct in respect of each Article of charges.
- c. A list of relied upon documents.
- d. A list of witnesses by whom charges are proposed to be proved.

344. The purpose of issuing a charge-sheet to a railway servant, is :---

- a. to warn him to be careful in future.
- b. to afford him an opportunity to defend himself from the accusation.
- c. Where minor penalty is imposed affecting the pensionary benefits of the charged official.
- d. Where services of a railway servant are to be terminated in accordance with the terms of agreement.

345. A retired railway servant may act as defence counsel.

- (A) in not more than 2 cases.
- (B) in not more than 5 cases.
- (C) in any number of cases.
- (D) in no case.

346. Find out the Order against which Appeal does not lie :--

- (A) an order of deemed suspension.
- (B) an order of E.O. passed during the course of enquiry.
- (C) an order made by the G.M.
- (D) an order enhancing any penalty imposed by G.M.

347."Charge" means - a railway servant's action :--

- (A) not appreciated by the Controlling Officer.
- (B) of an out-standing nature.
- (C) violating a standing order and made known to him to explain.
- (D) None of the above.

348.Find out among the following the aspect which is violative of principles of natural justice :--

- (A) the offence alleged to have been committed by railway servant was made known to him.
- (B) the charged official was given an opportunity to produce defence documents.
- (C) the witnesses on behalf of D.A. were not allowed to be cross-examined by the charged employee.
- (D) the I.O. appointed to hold enquiry was a disinterested person.

349.An officer who is competent to impose the penalty of "Compulsory Retirement" on a given railway servant, will also have the powers to impose :--

- (A) any other penalty lower than CR only.
- (B) any one of the minor penalties only.
- (C) penalties of 'Removal' & 'Dismissal' also.
- (D) no other penalty higher or lower than Compulsory Retirement.

350.The time allowed to charged official to submit his revision petition to the appropriate authority is :--

(T)

- a. 15 days
- b. 45 days
- c. 60 days
- d. 180 days

351.A witness who is summoned by Disciplinary Authority to prove the charges,

(T) \

deposes before I.O. in favour of charged official. Such a witness is called.

- (A) Expert witness
- (B) Defence witness
- (C) Prosecution witness
- (D) Hostile witness
- (E) Irrelevant witness

352. One of the following is not a penalty under DAR. Find out.

- (A) Withholding of Privilege Passes
- (B) Withholding of Post-Retirement Passes
- (C) Withholding of PTOs
- (D) Withholding of Privilege Passes and PTOs

353. "Revision" of a penalty under Rule 25 of RS [D&A] Rules is applicable to :--

- (A) All the minor penalties only
- (B) All the major penalties only
- (C) All the minor and major penalties
- (D) Compulsory Retirement, Removal and Dismissal

354. Speaking order means

- (A) Reasons recorded in support of decision taken by the Disciplinary Authority
- (B) The memorandum communicating the penalty
- (C) The written statement of defence of the charged official
- (D) The report of the Inquiry Officer

355. Colour of crimping tool handle used for insulated type lug crimping in control cables ?

- A) Metallic
- B) Green
- C) Yellow
- D) No colour

356 Type of die used for crimping of power cable?

- A) D- type
- B) Hexagonal small type
- C) U-type
- D) Hexagonal Big type

359. In DBR isolated loco which contact required specific attention during inspection?

- A) Traction contact
- B) Braking contact
- C) Both A & B
- D) None of the above

360.For attention of auxiliary interlocks which paper is used during inspection?

- A) Emery paper Grade 120
- B) Sand paper grade 80
- C) Polish paper grade 2000
- D) Polish paper grade 4000

361.For proper isolation of spare cable ELS/HWH has adopted a recent method of?

- A) Apply glass tape
- B) Apply black PVC tap
- C) Apply varnish

- D) Both A & C

362. Range of gap between main contact tip of C107 contactor?

- A) 6.5 to 7.5 mm
- B) 7.5 to 8.5 mm
- C) 7.5 to 9.5 mm
- D) 6.5 to 8.5 mm

363. Range of dip gap of drum type reverser?

- A) 1 - 1.5 mm
- B) 1.5 – 2.0 mm
- C) 1.2 - 1.8 mm
- D) 1.5 - 1.8 mm

364. Contact pressure of Fixed contact in drum type reverser?

- a) 10 Kg
- b) 11 Kg
- c) 12 Kg
- d) 13 Kg

365. In which inspection servomotor grease is required to be changed in reverser?

- A) IA
- B) IC
- C) Both IA & IC
- D) Grease conditional basis changing required

366. Chronological time setting of C-118 should be?

- A) 3 sec
- B) 4 sec
- C) 5 sec
- D) 6 sec

367. Lateral play of core of C-118 contactor(EM type)?

- A) 0.1-0.3 mm
- B) 0.1-0.4 mm
- C) 0.3-0.4 mm
- D) 0.2-0.4 mm

368. Main contact gap of EP type C-118 contactor?

- A) 21 - 23 mm
- B) 16 - 18 mm
- C) 21 - 25 mm
- D) 16 - 20 mm

369. In case of throttle failure, operation of which rotary switch is expected?

- A) 154
- B) 160
- C) 237.1
- D) 152

370. When Rotary switch 160 is made to position '0' ?

- A) For shunting mode operation
- B) To isolate bogie
- C) For Failure mode operation
- D) To cut out vigilance device

371. Circuit breaker monitoring is

- A) 127.1/2
- B) 127.2/2
- C) 127.22/2
- D) 127.11/2

372. Torque required for tightness of IP bolt of WAP 4 Traction motor?

- A) 35 Kg
- B) 28 Kg
- C) 20 Kg
- D) None of the above

373. Recommended Arc horn gap of WAP-4 Traction motor?

- A) 11.5 - 13.5 mm
- B) 11.5 - 12.5 mm
- C) 12.5 - 14.5 mm
- D) 11.5 - 14.5 mm

374. Condemn limit of diameter of WAP-4 Traction motor commutator?

- A) 400 mm
- B) 385 mm
- C) 390 mm
- D) 380 mm

375. How much minimum pinion bedding is required in WAP-4 TM?

- A) 80 %
- B) 85 %
- C) 90 %
- D) 98 %

376. What is the minimum brush holder spring pressure in WAP 4 TM?

- A) 3.44 kgf +- 10%
- B) 3.44 kgf +- 5 %
- C) 2.88 kgf +- 5%
- D) 2.88 kgf +- 10%

377. Maximum permissible difference of resistance between two element of temperature sensor of WAP 7 TM?

- A) 0.6 ohm
- B) 0.4 ohm
- C) 0.3 ohm
- D) 0.1 ohm

378. Gap between speed sensor & Ring of Hall effect speed sensor to be kept?

- A) 1.2 mm
- B) 1.6 mm
- C) 1.0 mm
- D) 1.8 mm

379. Voltage rating of 6FRA6068 type traction motor?

- a) 2180 V
- b) 2800 V
- c) 850 V
- d) 630 v

380. Type of grease used in WAP 7 traction motor?

- A) RR 3
- B) SHC 120
- C) 460 RR
- D) Both A & B

381. In one WAP 7 loco Traction motor maximum permissible phase to phase inductance variation?

- A) 0.05 mH
- B) 0.005 mH
- C) 0.0015 mH
- D) 0.015 mH

382. How many type of rotor presently in use in WAP-7 Traction motor

- A) 3
- B) 4
- C) 5
- D) 1

383. Gear ration of WAP-7 Traction motor?

- A) 20:58
- B) 23:58
- C) 20:72
- D) None of the above

384. For measuring Pinion travel WAP 7 loco Traction motor, Gap between pinion & collar of shaft should be?

- A) 12 +- 0.1 mm
- B) 15 +- 0.1 mm
- C) 4 +- 1 mm
- D) None of the above

385. How many blades are there in MVMT impeller ?

- A) 12
- B) 20
- C) 24
- D) All of the above

386. In bearing nomenclature ZC3 indicates

- A) Ball bearing
- B) both side sealed
- C) one side sealed
- D) Both A & C

387. What is output rating of ARNO?

- A) 150 KVA
- B) 140 KVA
- C) 130 KVA
- D) 120 KVA

388. End cover dia of MR scavange & TM scavange blower is measured by?

- A) Inside micrometer
- B) Vernier caliper
- C) Hand made guage
- D) Not being measure

389. Size of locking bolt in commutator end?

- A) 16 x 35
- B) 16 x 40
- C) 20 x 35
- D) 20 x 40

390. Size of bearing used in TM blower?

- A) 6206
- B) 6208
- C) 6306
- D) 6312

391. Dynamic balancing limit of MVMT?

- A) 4 m/s
- B) 3 m/s
- C) 5 m/s
- D) 6 m/s

392. What is the pressure switch setting in Schneider make VCB?

- A) 3.3 - 3.6 Kg
- B) 4.0 - 4.6 Kg
- C) 3.3 – 4.6 Kg
- D) None of the above

393. Pressure regulator setting in Areva Make VCB?

- A) 4.5 +- 0.1 Kg
- B) 4.0 +- 0.5 Kg
- C) 5.5 - 6.0 Kg
- D) 5.0 - 5.5 Kg

394. What is the pressure switch setting in AAL/BTIL make VCB?

- A) 3.3 -3.6 Kg
- B) 4.0-4.6 Kg
- C) 3.3 – 4.6 Kg
- D) None of the above

395. Pressure regulator setting in AAL/BT Make VCB?

- A) 4.5 +- 0.1 Kg
- B) 4.0 +- 0.5 Kg
- C) 5.5 - 6.0 Kg
- D) 5.0 - 5.5 Kg

396. What is setting of Q30 relay?

- A) 790/710 V DC
- B) 250/200 V DC
- C) 215/150 V AC
- D) 790/710 V AC

397. What is the drum setting of QLM relay?

- A) 8
- B) 8.5
- C) 9.0
- D) 9.5

398. Time delay provided in Q44 Relay?

- A) 0.4 sec
- B) 60 sec
- C) 0.65 sec
- D) 5 sec

399. Time delay provided in Q118 Relay?

- A) 0.4 sec
- B) 60 sec
- C) 0.65 sec
- D) 5 sec

400. Time delay provided in PR1 Relay?

- A) 0.4 sec
- B) 60 sec
- C) 0.65 sec
- D) 5 sec

401. What is the setting of QVRH relay?

- A) 50/42 mm WC
- B) 13/8 mm WC
- C) 20/14 mm WC
- D) None of the above

402. What is the drop out voltage setting of MVR relay?

- A) 110 V
- B) 140 V
- C) 180 V
- D) 200 V

403. What is the pressure setting of QPH relay?

- A) 8.0- 9.5 Kg
- B) 4.0 - 4.6 Kg
- C) 0.3 – 0.6 Kg
- D) None of the above

404. Specific gravity of electrolyte used in Ni-Cd battery?

- A) 1.1
- B) 1.25

- C) 1.2
- D) 1.21

405. Name of electrolyte used in WAP-7 batteries?

- A) KoH
- B) NaoH
- C) NaCl
- D) None of the above

406. During capacity checking of WAP-4 batteries (Lead acid), what is rate of discharge kept?

- A) 10 A for 7.5 hrs
- B) 15 A for 5.0 hrs
- C) 15 A for 7.0 hrs
- D) 25 A for 3.0 hrs

407. What is limit of voltage below which a cell is rejected during capacity checking?

- A) 1.5 V
- B) 1.6 V
- C) 1.7 V
- D) 1.8 V

408. What is the passing limit of LA during leakage current test at 25 KV?

- A) 50-100 uA
- B) 500-1000 uA
- C) 25-50 uA
- D) 10-15 uA

409. How many type of memories are there in speedometer?

- A) 1
- B) 2
- C) 3
- D) 4

410. Pick up voltage setting of Q20 relay?

- A) 790 V
- B) 750 V
- C) 730 V
- D) 710 V

411. Relay used to measure differential current between TM 4 & 5?

- A) QRSI 1
- B) QRSI 2
- C) QD 1
- D) QD 2

412. Lubricating oil used for control lever guide pin?

- A) RR 3
- B) BBC 909
- C) Transformer oil
- D) Both B & C

413. What is gap between CGR contact tips?

- A) 30 - 48 mm
- B) 36 – 48 mm
- C) 30 – 36 mm
- D) 36 – 48 mm

414. What is the range of contact pressure of CGR tips?

- A) 6.0 – 9 kg
- B) 5.6 – 9 kg
- C) 6.6 – 9 kg
- D) 6.6 – 7.8 kg

415. What is the minimum BDV value of used GR oil?

- A) 40 KV
- B) 60 KV
- C) 50 KV
- D) 75 KV

416. What should be the minimum spring height of GR contact roller spring after applying 6.2 kg load?

- A) 15.0 mm
- B) 15.6 mm
- C) 15.3 mm
- D) 16.0 mm

417. At what temperature resistance of solenoid valve coil is corrected ?

- A) 10 degree C
- B) 20 degree C
- C) 30 degree C
- D) 40 degree C

418. What should be the minimum carbon impression to ensure proper bedding of reverser?

- A) 3 x 45 mm
- B) 3 x 40 mm
- C) 4 x 45 mm
- D) 4 x 40 mm

419. Recommended torque value for tightness of special bolt of insulating ring of GR?

- A) 14 – 15 Nm
- B) 20 – 30 Nm
- C) 11 – 13 Nm
- D) 5 – 6 Nm

420. Recommended torque value for tightness of Special nut & conical nut of GR?

- A) 14 – 15 Nm
- B) 20 – 30 Nm
- C) 11 – 13 Nm
- D) 5 – 6 Nm

421. Standard gap to be kept in between Bushing tightness nut & connection tightness nut in WAP-7 loco transformer power bushing?

- A) 3 – 5 mm
- B) 4 – 5 mm
- C) 3 – 6 mm
- D) 4 – 6 mm

422. Recommended torque for tightening of WAP-7 loco transformer bushing nut?

- A) 100 Nm
- B) 130 Nm
- C) 150 Nm
- D) 180 Nm

423. For WAP – 7 loco radiator cleaning, what is the recommended pressure for Compressed air?

- A) 4 – 7 kg
- B) 5 – 7 Kg
- C) 4 – 6 Kg
- D) 5 – 6 kg

424. What should be the water temperature for radiator cleaning in WAP-7 loco?

- A) 50 degree C
- B) 60 degree C
- C) 70 degree C
- D) 80 degree C

425. Recommended air flow to be ensured just below the radiator of WAP-7 loco?

- A) 6 m/s
- B) 6.5 m/s
- C) 7 m/s
- D) 8 m/s

426. Recommended gap between Intermediate gear & Guide pin?

- A) 0.3 -0.7 mm

- B) 0.4- 0.7 mm
- C) 0.3 – 0.6 mm
- D) 0.4 – 0.6 mm

427. Oil used in traction converter of GTO based loco?

- A) APAR oil
- B) shell dyla Dx
- C) 460 RR
- D) None of the above

428. What should be the level of TFP oil in winter in WAP 4 loco?

- A) 2" above min mark
- B) 1" above min mark
- C) 3" above min mark
- D) 4" above min mark

429. What is the level of GR oil to be maintained in winter?

- A) 10 -20 degree C mark
- B) 20 - 30 degree C mark
- C) 30 - 40 degree C mark
- D) 40 – 50 degree C mark

430. In ARNO based WAP-4 locomotive both auxiliary windings are connected in?

- A) Series
- B) Parallel
- C) Any one among Series or parallel
- D) None of the above

431. In ARNO based WAP-4 locomotive additional link to be in between?

- A) a0 & a7
- B) a1 & a8
- C) Both A & B
- D) None of the above

432. For safe welding earthing clamp should be fixed at a distance of?

- A) 0.5 m
- B) 1 m
- C) 1.5 m
- D) None of the above

433. The type of motor used in EOT crane at ELS/HWH is?

- A) Squirrel cage induction motor
- B) Slip ring induction motor
- C) DC series motor

- D) DC shunt motor

434. In WAP 7 locomotive what type of motor is used?

- A) DC shunt motor
- B) Slip ring induction motor
- C) DC series motor
- D) Squirrel cage induction motor

435. What is the mechanical safety device used in EOT crane?

- A) Overload relay
- B) Single phase preventer
- C) Limit switch
- D) No mechanical protection provided

436. What are the electrical safety device used in EOT crane?

- A) Overload relay
- B) Single phase preventer
- C) Limit switch
- D) No electrical protection provided

437. Brake power testing of 50 ton EOT crane can be done by?

- A) By lifting a bogie
- B) By lifting a motorised bogie
- C) By lifting a loco
- D) By lifting a transformer

438. Now a days the conventional main switch of LT panel is replaced by new type of?

- A) MCCB
- B) MCB
- C) ACB
- D) OCB

439. The insert used for loco turning of locomotive is of ?

- A) 17 mm
- B) 19 mm
- C) 21 mm
- D) 24 mm

440. The schedule of PU painting is?

- A) 1.5 years
- B) 2.0 years
- C) 3.0 years
- D) 4.0 years

441. Backfire protection of welding gas can be due to?

- A) Defect of gas cutting torch
- B) Defect of torch
- C) Defect of pipe
- D) All of the above

442. The minimum wire rope deum strand damaged in steel wire rope which can allow safe running is?

- A) 10 % of wire rope dia
- B) 15 % of wire rope dia
- C) 25 % of wire rope dia
- D) 50 % of wire rope dia

443. Before going inside of a loco for loco cleaning?

- A) Staff should see the loco in trip condition
- B) Battery should be off
- C) Both A & B
- D) None of the above

444. Before welding of WAP 7 loco it should be ensured that?

- A) Battery should be off
- B) Panto should be down
- C) Earthing clamp should be at minimum position of welding
- D) All of the above

445. The reverse operation of LT motion of EOT crane should be avoided for?

- A) Damage of motor
- B) Damage in LT gear box coupling
- C) Damage in gear & pinion
- D) Damage in load

446. Filter cleaning of WAP 7 loco is being done in?

- A) IA
- B) IB
- C) IC
- D) Every inspection

447. Length of WAP 4 axle?

- A) 2440 m
- B) 2438 m
- C) 2439 m
- D) 2442 m

448. In NELA(Near end law angle) UFD machine is calibrated for?

- A) 2500 m
- B) 1000 m

- C) 500 m
- D) 1500 m

449. Angle probe required for WAP 7 axle are?

- A) 12.5°, 15°, 10°
- B) 15°, 17.5°, 12.5°
- C) 10°, 12.5°
- D) 10°, 17.5°

450. Frequency of normal probe is?

- A) 1.25 MHz
- B) 2.25 MHz
- C) 2.5 MHz
- D) 2.0 MHz

451. Whole length of axle is tested by

- A) Trace delay scanning
- B) NELA scanning
- C) Far End scanning
- D) None of the above

452. Back Peak signal is seen during UST of WAP 4 axle?

- A) 8.5 division
- B) 8.9 division
- C) 9.8 division
- D) 9.7 division

453. In dissolve gas analysis H₂ is detected by?

- A) TCD
- B) ECD
- C) FID
- D) PID

454. Harmful gases evolve by celluloid decomposition are?

- A) H₂, C₂ H₄
- B) CH₄, C₂ H₄
- C) CO, C₂ H₆
- D) CO, CO₂

455. DGA is done to find?

- A) Crack in Core
- B) Incipient fault
- C) Any mechanical damage
- D) None of these

456. DGA of transformer oil is done by?

- A) Spectography
- B) Gas chromatography
- C) Seisomograph
- D) None of the above

457. Which of the following is destrutive test?

- A) DPT
- B) MPT
- C) UST
- D) Acidity test

458. MPT (magnetic particle test) is done on?

- A) Rubber material
- B) Aluminium material
- C) Copper material
- D) Ferro magnetic material

459. Sub surface (Upto 3 mm) crack is detected by?

- A) DPT
- B) MPT
- C) UST
- D) None of the above

460. Permissible limit of ferrous content in metal content of grase?

- A) 0.1 gm/100 gm sample
- B) 0.2 gm/100 gm sample
- C) 0.25 gm/100 gm sample
- D) 0.30 gm/100 gm sample

461. Which of the following probe is used in coarse grained axle?

- A) 2.0 MHz
- B) 2.5 MHz
- C) 1.25 MHz
- D) None of the above

462. Internal crack below which wavelength cannot be detected by FE & NELA scanning ?

- A) Below 1/3 rd wavelength
- B) Below 1/2 rd wavelength
- C) Below 3/4 rd wavelength
- D) none of the above

463. Generally fatigue crack is develop in the following part of axle?

- A) Journal
- B) Body
- C) Gear seat
- D) none of these

464. Function of probe is?

- A) Energy transmission
- B) Energy Conduction
- C) Energy correction
- D) Energy conversion

465. In electric locomotives, Hand brake chain is connected with the lever of wheel no.?

- A) 12
- B) 01
- C) 08
- D) 02

466. Condemning diameter of wheel of WAP-7 loco?

- A) 1012 mm
- B) 1052 mm
- C) 1016 mm
- D) 1097 mm

467. Flexicoil mark – I steel casting bogies are used in?

- A) WAG 7
- B) WAP 4
- C) WAM 4
- D) WAP 7

468. No. of traction/aclathan housing used in WAP -7 loco?

- A) 02
- B) 04
- C) 06
- D) 08

469. Gear ration in WAP-7 loco is?

- A) 20:72
- B) 23:58
- C) 23:72
- D) 20:58

470. Service limit of gauge width of wheels on same axle is?

- A) 1595 to 1599 mm
- B) 1595.5 to 1599 mm
- C) 1596 to 1599 mm
- D) 1596.5 to 1599 mm

471. Standard piston stroke in WAP-4 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

472. New & condemning limit of L-type composite brake blocks are respectively?

- A) 55 mm, 15 mm
- B) 55 mm, 10 mm
- C) 35 mm, 10 mm
- D) 35 mm, 15 mm

473. The clearance between outer connecting strap of brake pull rod & wheel face in WAP-4 loco is?

- A) 30.5 mm
- B) 32.5 mm
- C) 21.5 mm
- D) 31.5 mm

474. Which class of electrode is used for welding of manganese steel liner?

- A) E2
- B) N3
- C) M5
- D) K

475. Spheriblock of torque arm must be replaced if rubber crack is more than?

- A) 90 degree
- B) 180 degree
- C) 270 degree
- D) 120 degree

476. Gap between outer thrust collar & inner thrust collar in end axle box of Wap-4 loco is maintained?

- A) 4.5 mm to 8.5 mm
- B) 4.5 mm to 6.5 mm
- C) 3.5 mm to 6.5 mm
- D) 4.0 mm to 6.5 mm

477. Maximum variation of CBC height between locomotive & adjacent coach is?

- A) 65 mm
- B) 85 mm
- C) 55 mm
- D) 75 mm

478. For fixing of traction motor with MSU in WAP4 loco bolt used is?

- A) M 36 X 100
- B) M 24 X 110
- C) M 36 X 110
- D) M 24 X 100

479. Vertical play of end brake hanger in WAP4 brake gear should not be more than?

- A) 08 mm
- B) 10 mm
- C) 06 mm
- D) 09 mm

480. Standard CBC height from rail level?

- A) 1030 to 1105 mm
- B) 1090 to 1110 mm
- C) 1030 to 1090 mm
- D) 1040 to 1105 mm

481. Rail guard height from Rail level for WAP4 loco is?

- A) 112 to 119 mm
- B) 102 to 119 mm
- C) 106 to 119 mm
- D) 104 to 119 mm

482. Gap between traction motor bottom nose & bonded rubber sandwich mounting assembly should not be more than?

- A) 5 mm
- B) 3 mm
- C) 6 mm
- D) 8 mm

483. Maximum limit of metal content allowed in axle box for 100 gram grease sample?

- A) 0.25 gm
- B) 0.20 gm
- C) 0.30 gm
- D) 0.15 gm

484. Helical insert IN provided into helical tapped hole of axle box cover on axle box nos?

- A) 2,5,8,11
- B) 1,6,7,12
- C) 3,4,9,10
- D) 1,2,11,12

485. Oil used in WAP-7 gear case?

- A) Shell gadus
- B) RR 460
- C) RR 3
- D) Shell dyla Dx

486. Condemning diameter of wheel of WAP-7 loco?

- A) 1012 mm
- B) 1052 mm
- C) 1016 mm
- D) 1097 mm

487. Flexicoil mark – I steel casting bogies are used in?

- A) WAG 7
- B) WAP 7
- C) WAM 4
- D) WAP 4

488. Grease used in WAP -7 axle box?

- A) Shell gadus
- B) RR 460
- C) RR 3
- D) Shell dyla Dx

489. No. of teeth in WAP-7 bull gear?

- A) 72
- B) 58
- C) 20
- D) 23

490. Depth of spheriblock zig used in TM torque support?

- A) 2 mm
- B) 4 mm
- C) 5 mm
- D) 6 mm

491. Height of sandwich rubber mounting pad in new condition?

- A) 304 mm
- B) 308 mm
- C) 312 mm
- D) 315 mm

492. Tightness torque of WAP 7 MSU bolt ?

- A) 1000 N-m
- B) 1260 N-m
- C) 1400 N-m
- D) 1560 n-m

493. Size of WAP 4 axle box cover stud?

- A) M 20 x 40
- B) M 22 x 50
- C) M 22 x 40
- D) M 20 x 50

494. Which class of electrode is used for welding of manganese steel liner?

- A) E2
- B) N3
- C) M5
- D) K

495. Spheriblock of torque arm must be replaced if rubber crack is more than?

- A) 90 degree
- B) 180 degree
- C) 270 degree
- D) 120 degree

496. Which class of electrode is used for welding of Bogie frame & bolster ?

- A) E2
- B) N3
- C) M5
- D) K

497. Tightness torque of WAP 7 axle clamping plate fixing socket cap screw?

- A) 250 N-m
- B) 280 N-m
- C) 300 N-m
- D) 320 N-m

498. For fixing of traction motor with MSU in WAP4 loco bolt used is?

- A) M 36 X 100
- B) M 24 X 110
- C) M 36 X 110
- D) M 24 X 100

499. Size of WAP 7 axle journal diameter?

- A) 150.000 to 150.068
- B) 150.000 to 150.043
- C) 150.043 to 150.068
- D) 105.043 to 150.072

500. Spheriblock of axle guide rod must be replaced if rubber crack is more than?

- A) 90 degree
- B) 180 degree
- C) 270 degree
- D) 120 degree

501. In WAP 7 loco axle housing bore dia should not be less than?

- A) 250.000 mm
- B) 250.023 mm
- C) 250.046 mm
- D) 250.078 mm

502. Capacity of crane used for heavy lifting of locomotive?

- A) 15 Ton
- B) 25 Ton
- C) 40 Ton
- D) 50 Ton

502. Grease used in Axle tube of WAP 7 loco?

- A) Shell gadus
- B) 460 RR
- C) SHC 120
- D) RR 3

503. Type of bogie used in WAP 7 locomotive?

- A) Casting
- B) Casting & fabricated mix
- C) Fabricated
- D) none of the above

504. Contact pressure of pantograph with OHE contact wire?

- A) 5 Kg
- B) 6 kg
- C) 7 kg
- D) 8 kg

505. Gap of ET-1 to be adjusted at?

- A) 90 mm
- B) 70 mm
- C) 200 mm
- D) 210 mm

506. Maximum height of pantograph should be limited at?

- A) 2 m
- B) 2.5 m
- C) 1.75 m
- D) 1.5 m

507. How much transverse deflection is allowed in pantograph by applying 30 kg at a height of 2 m?

- A) 10 mm on each side
- B) 30 mm on each side
- C) 15 mm on each side
- D) None of the above

508. Total no. of roof line insulator used in WAP 7 locomotive?

- A) 8
- B) 5
- C) 9
- D) 4

509. Tightening torque of carbon strip fixing bolt?

- A) 1.5 kg-m
- B) 2.5 kg-m
- C) 3.0 kg-m
- D) 5.0 kg -m

510. Swivel angle of pantograph pan should be?

- A) 5 +- 1 degree
- B) 6 +- 1 degree
- C) 7 +- 1 degree
- D) 8 +-1 degree

511. Condemning limit of thickness of carbon strip?

- A) 3.5 mm
- B) 4.0 mm
- C) 4.5 mm
- D) 5.0 mm

512. Rising time pantograph to be adjusted at?

- A) 0-6 sec
- B) 0-10 sec
- C) 5-10 sec
- D) 6-10 sec

513. Lowering time pantograph to be adjusted at?

- A) Up to 6 sec
- B) Up to 10 sec
- C) between 5-10 sec
- D) between 6-10 sec

514. What is the maximum permissible speed of IR-03H type pantograph?

- A) 130 kmph
- B) 140 kmph
- C) 200 kmph
- D) 250 kmph

515. What is maximum current rating of pantograph?

- A) 300 A
- B) 400 A
- C) 500 A
- D) 150 A

516. Weight of CO₂ gas in CO₂ gas big cylinder in WAP 7 locomotive?

- A) 5 kg
- B) 40 kg
- C) 22.5 kg
- D) 2 kg

517. Which chemical is used in DCP type fire extinguisher?

- A) Sodium carbonate
- B) Sodium bicarbonate
- C) Sodium hydroxide
- D) None of the above

518. Lubricant used in plunger box of pantograph?

- A) SP -78
- B) Servo gem -2
- C) Vaseline
- D) Talpa -40

519. Co2 cartidge in 5 kg DCP type fire extinguisher is required to be changed in case of cartidge weight is less than actual weight ?

- A) 10 gm
- B) 12 gm
- C) 15 gm
- D) 20 gm

520. In WAP 7 loco axle housing bore dia should not be less than?

- A) 250.000 mm
- B) 250.023 mm
- C) 250.046 mm
- D) 250.078 mm

521. Capacity of crane used for heavy lifting of locomotive?

- A) 15 Ton
- B) 25 Ton
- C) 40 Ton
- D) 50 Ton

522. Grease used in Axle tube of WAP 7 loco?

- A) Shell gadus
- B) 460 RR
- C) SHC 120
- D) RR 3

523. Type of bogie used in WAP 7 locomotive?

- A) Casting
- B) Casting & fabricated mix
- C) Fabricated
- D) none of the above

524. Time taken by CPA to build up pressure from 0 to 8 kg in WAP4 loco?

- A) 6 min
- B) 7 min
- C) 8 min
- D) 9 min

525. Time taken by main compressor to build up pressure from 8 to 9.5 kg in WAP4 loco?

- A) 90 min
- B) 100 min
- C) 120 min
- D) 200 min

526. Application time of SA9?

- A) 5-8 sec
- B) 6-9 sec
- C) 6-10 sec
- D) 5-10 sec

527. Release time of A9?

- A) 6-9 sec
- B) 9-13 sec
- C) 10-15 sec
- D) None of the above

528. Setting of MR reservoir safety valve in WAP 4 loco?

- A) 10 kg/cm²
- B) 10.5 kg/cm²
- C) 11 kg/cm²
- D) 11.5 kg/cm²

529. How many position in A9 of WAP4 loco?

- A) 2
- B) 5
- C) 6
- D) None of the above

530. Torque tightness of CP foundation bolt?

- A) 180 Nm
- B) 210 Nm
- C) 200 Nm
- D) 195 Nm

531. BP pressure of WAP 7 loco in release position of A9?

- A) 3.5 kg
- B) 4.6 kg
- C) 5.6 kg
- D) 5.0 kg

532. How many types of card used in E-70 brake system?

- A) 5
- B) 4
- C) 6
- D) 7

533. If A9 of cab2 is defective which LED should glow in control card ?

- A) LED no. 1
- B) LED no. 2
- C) LED no. 3
- D) LED no. 1&2

534. Baby pressure required for Panto raising?

- A) 4.5 kg
- B) 5.0 kg
- C) 5.4 kg
- D) 5.5 kg

535. In which position of selector switch “Configuration mismatch” message appears in locomotive with CCB brake system?

- A) CAB 1 in LEAD & CAB2 in LEAD
- B) CAB 1 in TRAIL & CAB 2 in TRAIL
- C) CAB 1 in LEAD & CAB 2 in TRAIL
- D) Both 1 & 2

536. Setting of limiting valve in A-9 of Wap-7 locomotive?

- A) 1.8 kg
- B) 2.5 kg
- C) 3.0 kg
- D) 3.5 kg

537. Minimum no. of D-shackle should be used in Compressor safety sling?

- A) 2
- B) 4
- C) 3
- D) 5

538. If regenerating braking fails pneumatic brake applied through?

- A) PS card
- B) control card
- C) Blender card
- D) None of the above

539. WAP-4 locomotive with how many no. of reservoir are used in Duronto exp?

- A) 4
- B) 5
- C) 3
- D) 6

540. How many types of coupling used in compressor?

- A) 1
- B) 2
- C) 3
- D) 4

541. Which mode is used for BP leakage test in CCB brake system fitted locomotive?

- A) Test mode
- B) Helper mode
- C) Banking mode
- D) Normal mode

542. Which oil is used in compressor lubrication?

- A) Shell gadus
- B) 460 RR
- C) Servopress 150
- D) Molykot

543. When air dryer in service CP time increase by?

- A) 10 %
- B) 15 %
- C) 20 %
- D) 25 %

544. Total no. of loco holding of ELS/HWH on date?

- A) 149
- B) 150
- C) 154
- D) 156

545. What type of traction motor used in WAP -4 locomotive?

- A) DC shunt motor
- B) AC induction motor
- C) DC series motor
- D) AC slip ring induction motor

546. Time gap between one IOH to MOH of WAP 7 locomotive?

- A) 1.5 years
- B) 3 years
- C) 2 years
- D) 4 years

547. In WAP 4 locomotive TR related to?

- A) Traction
- B) Transformer
- C) Training register
- D) Relay panel

548. CTF stands for

- A) Traction braking reverser
- B) Control traction failure
- C) Forward traction control
- D) None of the above

549. Abbreviation of reverser is?

- A) 'R'
- B) 'S'
- C) 'J'
- D) 'MP'

550. In shed area shunting is done by?

- A) LP
- B) ET
- C) Points man
- D) ALP

551. Generally minor scheduled inspection are done under?

- A) OHE charged condition in inspection pit
- B) Unwired section of inspection pit
- C) By isolating OHE in inspection pit
- D) By isolating OHE & proper earthing of OHE in inspection pit

552. Capacity of transformer used in WAP 4 locomotive?

- A) 5400 KVA
- B) 6500 KVA
- C) 7500 KVA
- D) 7775 KVA

553. Individual TM can be isolated in?

- A) GTO based WAP 7 locos
- B) IGBT based WAP 7 locos
- C) Both A & B
- D) None of the above

554. Periodicity of IC of WAP 7 locomotive is?

- A) 90 days
- B) 180 days
- C) 270 days
- D) 120 days

555. PSA switch stands for?

- A) Brake elimination
- B) Sanding
- C) Pneumatic control
- D) Vigilance

556. SF 11 stands for?

- A) Confidential
- B) Warning
- C) Minor penalty charge sheet
- D) Major penalty charge sheet

557. In WAP 4 locos name of EM contactor panel?

- A) BA panel
- B) SB panel
- C) TK panel
- D) EM panel

558. After POH/MTR which schedule is carried out?

- A) IA
- B) IB
- C) IC
- D) IC0

559. Hotel load indicates?

- A) Lighting & Fan load in coaches
- B) Air conditioning in coaches
- C) Pantry car load
- D) All above

560. What is the maximum speed of WAP 7 loco?

- A) 110 KMPH
- B) 130 KMPH
- C) 140 KMPH
- D) 160 KMPH

561. PR stands for?

- A) Progression
- B) Head light
- C) Primary resistance
- D) Permanent residual

562. Periodicity of MTR is?

- A) 6 years
- B) 12 years
- C) 18 years
- D) 15 years

563. In WAP 4, the first letter “W” indicates ?

- A) Passenger loco
- B) AC traction
- C) Series of locomotive
- D) Broad guage

564. What is the CT ratio used in QLM circuit of WAP 4 Loco?

- A) 200/5
- B) 250/5
- C) 500/5
- D) 1000/5

565. What is voltage & current rating of secondary winding of WAP7 loco transformer?

- A) 1269 V, 1154 A
- B) 1142 V, 1154 A
- C) 1142 V, 1269 A
- D) 1269 V, 1142 A

566. Maximum axle load of WAP 7 loco is?

- A) 18.8 ton
- B) 19.5 ton
- C) 20.5 ton
- D) 21.8 ton

567. What is the free height of secondary spring used in WAP 7 loco in mm?

- A) 683
- B) 720
- C) 733
- D) 742

568. How many IGBTs are used in one traction converter?

- A) 28
- B) 30
- C) 36
- D) None of the above is correct

569. Harmonic filter winding used in WAP 7 locomotive is used to eliminate?

- A) 3rd harmonic
- B) 5th harmonic
- C) 7th harmonic
- D) 4th harmonic

570. At the time of starting a train with WAP 7 loco, distribution of power between bogies?

- A) Equal in both bogies
- B) More in driving cab bogie
- C) More in rear cab bogie
- D) None of the above

571. In WAP 7 loco which type of control is used in Line side

- A) Rectifier control
- B) Booster Chopper control
- C) Inverter control
- D) Any of the above

572. In VVVF drive, if Speed of a squirrel cage induction motor is more than the rated speed, which statement below is correct

- A) Frequency more than rated
- B) Voltage more than rated
- C) Output torque is less than rated
- D) All of the above

573. Range of pressure sensor used to measure transformer oil pressure?

- A) 0-2 bar
- B) 0- 4 bar
- C) 0-3 bar
- D) none of the above

574. What is the purpose of bender card?

- A) For smooth operation of pneumatic brake
- B) To apply pneumatic brake in case regenerative brake fails
- C) For overcharging of locomotive
- D) None of the above

575. Store at ELS/HWH is a?

- A) Ordinary store
- B) Custody store
- C) Emergency store
- D) Imprest store

576. LC circuit provided parallel to DC link capacitor in WAP 7 loco traction converter is tuned at?

- A) 50 Hz
- B) 100 Hz
- C) 150 Hz
- D) 200 Hz

577. Maximum time limit for a SF-5 enquiry is?

- A) 30 days
- B) 60 days
- C) 90 days
- D) 180 days

578. Closing time of VCB is normally found?

- A) Within 100 ms
- B) 100- 200 ms
- C) 200-400 ms
- D) More than 400 ms

579. In HOG fitted loco, Main purpose of two 110 Volt control pins in IV coupler is?

- A) To detect any fault in power car
- B) To detect any fault in Hotel load converter
- C) To check the continuity of entire circuit
- D) Those pins are not required & can be removed

580. For protection of small auxiliary motor which type of MCB used?

- A) Type B
- B) Type C
- C) Type D
- D) Type K

581. What type of coolant in traction converter of IGBT based locomotive should not be used?

- A) Organic acid technology
- B) Hybrid organic acid technology
- C) Inorganic acid technology
- D) Non of the above

582. Which wire is used to rewind the traction motor used in WAP 7 locomotive?

- A) Nickel coated copper wire
- B) Corona copper wire
- C) Normal copper wire
- D) Zirconium copper wire

583. What is the RGCP setting in WAP 4 loco?

- A) 8 – 10.5 kg
- B) 8 – 10.0 kg
- C) 8.5 – 10.0 kg
- D) 8.0 – 9.5 kg

584. What is the charging voltage of battery in WAP4 loco?

- A) 110 V
- B) 105 V
- C) 115 V
- D) 100 V

585. For dead movement of WAP 7 loco cock no. 74 to be kept at?

- A) Open
- B) close
- C) Any position
- D) None of the above

586. Limit of MR without brake air leakage?

- A) 250 gm/5 min
- B) 1500 gm/5 min
- C) 1000 gm/5 min
- D) 700 gm/5 min

587. In WAP 7 loco how many power cable connected in one Traction motor

- A) 2
- B) 3
- C) 4
- D) None of the above

588. Sander is provided in locomotive to prevent?

- A) Automatic movement of loco
- B) Wheel slipping
- C) Wheel skidding
- D) None of the above

589. Standard piston stroke in WAP-4 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

590. BP pressure of WAP 7 loco in release position of A9?

- A) 3.5 kg
- B) 4.6 kg
- C) 5.6 kg
- D) 5.0 kg

591. Standard piston stroke in WAP-7 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

592. Total clearance between brake block & wheel face in WAP-4 loco is?

- A) 10 mm
- B) 15 mm
- C) 20 mm
- D) None of the above

593. What is QLM relay?

- A) Aux circuit earthing relay
- B) Main circuit earthing relay
- C) Traction motor overvoltage relay
- D) High voltage overcurrent relay

594. If HMCS 2 on position 2 then which motor is isolated?

- A) TM 4
- B) TM 1
- C) TM 5
- D) TM 2

595. PHGR working can be checked after which notch?

- A) 4
- B) 5
- C) 6
- D) 1

596. If any rotary switch is on position 2, then?

- A) Motor & relay isolate
- B) Motor & relay in service
- C) Motor is isolate & relay service
- D) Motor in service & relay isolate

597. Rising time pantograph to be adjusted at?

- A) 0-6 sec
- B) 0-10 sec
- C) 5-10 sec
- D) 6-10 sec

598. VCD can not be acknowledged by?

- A) Paddle switch
- B) Notch through MP
- C) BPR switch
- D) HORN

599. During cab changing in CCB brake system fitted locomotive rear cab A9 handle to be kept in position?

- A) Run
- B) FS
- C) Release
- D) Emergency

600. How many acalathan ring used in WAP7 loco?

- A) 1
- B) 2
- C) 4
- D) 8

601. Which oil is used in compressor lubrication?

- A) Shell gadus
- B) 460 RR
- C) Servopress 150
- D) Molykot

602. For proper isolation of OHE what is to be ensured?

- A) Opening of isolator
- B) Connection of discharge rod
- C) Both A & B
- D) Anyone one among A & B is sufficient

603. Time taken by CPA to build up pressure from 0 to 8 kg in WAP4 loco?

- A) 6 min
- B) 7 min
- C) 8 min
- D) 9 min

604. Time taken by main compressor to build up pressure from 8 to 9.5 kg in WAP4 loco?

- A) 90 sec
- B) 100 sec
- C) 120 sec
- D) 200 sec

605. For dead movement of WAP 7 loco cock no. 47 to be kept at?

- A) Open
- B) close
- C) Any position
- D) None of the above

606. Limit of BP air leakage?

- A) 250 gm/5 min
- B) 1500 gm/5 min
- C) 1000 gm/5 min
- D) 700 gm/5 min

607. In electric locomotives, Hand brake chain is connected with the lever of wheel no.?

- A) 12
- B) 01
- C) 08
- D) 02

608. How many position in A9 of WAP4 loco?

- A) 2
- B) 5
- C) 6
- D) None of the above

609. Standard piston stroke in WAP-4 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

610. BP pressure of WAP 7 loco in release position of A9?

- A) 3.5 kg
- B) 4.6 kg
- C) 5.6 kg
- D) 5.0 kg

611. Standard piston stroke in WAP-7 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

612. Total clearance between brake block & wheel face in WAP-4 loco is?

- A) 10 mm
- B) 15 mm
- C) 20 mm
- D) None of the above

613. What is QOP relay?

- A) Aux circuit earthing relay
- B) Main circuit earthing relay
- C) Traction motor overvoltage relay
- D) High voltage overcurrent relay

613. If HMCS 2 on position 3 then which motor is isolated?

- A) TM 4
- B) TM 5
- C) TM 6
- D) All TM in service

614. Gap between traction motor bottom nose & bonded rubber sandwich mounting assembly should not be more than?

- A) 5 mm
- B) 3 mm
- C) 6 mm
- D) 8 mm

615. If any rotary switch is on position 3, then?

- A) Motor & relay isolate
- B) Motor & relay in service
- C) Motor is isolate & relay service
- D) Motor in service & relay isolate

616. Rising time pantograph to be adjusted at?

- A) 0-6 sec
- B) 0-10 sec
- C) 5-10 sec
- D) 6-10 sec

617. Lowering time pantograph to be adjusted at?

- A) Up to 6 sec
- B) Up to 10 sec
- C) between 5-10 sec
- D) between 6-10 sec

618. During cab changing in CCB brake system fitted locomotive rear cab A9 handle to be kept in position?

- A) Run
- B) FS
- C) Release
- D) Emergency

619. What is the notch regression time?

- A) 9-11 sec
- B) 10-12 sec
- C) 11-13 sec
- D) 13-15 sec

620. Which oil is used in compressor lubrication?

- A) Shell gadus
- B) 460 RR
- C) Servopress 150
- D) Molykot

621. What is the voltage level of OHE?

- A) 22.5 KV
- B) 25 KV
- C) 27.5 KV
- D) 30 KV

622. माइक्रोप्रोसेसर लोको में यदि दोनों डिसप्ले यूनिट जबाब नहीं देता है, तो जाँच करें
In microprocessor loco if both display units are not responding then check
a) CCLSA फ्यूज/fuse b) CCCPU फ्यूज/fuse c) CCPT फ्यूज/fuse d) सभी /All above.
623. रिआस्टैटिक ब्रेकिंग का कन्टैक्टर है / Contactor of rheostatic braking
a) C145 b) C108 c) SWC d) कोई नहीं / None
- 624.. नो टेन्सन् के कारण यदि DJ ट्रिप करें, तो नॉच रिग्रेस करने का माध्यम -
If DJ trips due to no tension then, notch will regress through
a) Q51 b) Q52 c) Q50 d) QRS
625. निम्न में से कौन, लोको की सेफटी आइटम नहीं है-
Which is not the safety item of loco
a) बफर/Buffer b) फ्लैशर लाइट/Flasher light c) हॉर्न d) कैब हीटर/Cab Heater
626. LSCHBA बत्ती के सिग्नलिंग रिले है/ The signaling relay of LSCHBA lamp is
a) QV60 b) QV62 c) QV61 d) QV64
627. HS4 प्रेशर कि सेटिंग है/ Setting of HS4 pressure is-
a) $8.5-10\text{kg/cm}^2$ b) $8-10\text{kg/cm}^2$ c) $8-9.5\text{kg/cm}^2$ d) $8.5-10.5\text{ kg/cm}^2$
628. CCPT फ्यूज का रेटिंग है / The rating of CCPT fuse is-
a) 16A b) 35A c) 6A d) कोई नहीं/None
629. कन्टैक्टर MPV-2 है / Contactor MPV-2 is-
a) C-111 b) C-121 c) C-101 d) कोई नहीं/None

630.	लोको में चक्के हरकने का अधिकतम सीमा है-								I
	Maximum skidding limit of wheel in loco is								
	a)	5 mm	b)	50 cm	c)	50 mm	d)	5.5 mm	
631.	यदि अक्जिलियरी मोटर काम नहीं करे, तो जाँच करें फ्यूज-								J
	If all auxiliary motors are not working then check fuse								
	a)	CCA	b)	CCLSA	c)	CCRA	d)	कोड़ नहीं/ None	
632.	जब सेंट्रल इलेक्ट्रॉनिक्स का तापमान 70 ⁰ C से अधिक होता है, निम्न में से जलेगा-								K
	When temperature of central electronics goes beyond 70 ⁰ C, which will glow:-								
	a)	LSAF	b)	LSOV	c)	LSDJ	d)	LSCE	
633.	यदि रिले QRS डि-इनर्जिज होता है तो / If relay QRS is de-energised then								L
	a)	DJ ट्रिप करेगा	b)	नॉच नहीं बढ़ेगा	c)	MCP काम नहीं करेगा	d)	कोई नहीं	
	a)	DJ will trip	b)	Notch will not progress	c)	MCP will not work	d)	None	
634.	RS प्रेसर पैदा करते वक्त निम्न कॉक की स्थिति होगी-								M
	While developing RS pressure, the position of the following cocks will be-								
	a	R-1 बंद/close	b)	R-1 खुला/ open	c)	R-1 बंद/ close	d)	R-1 खुला/ open	
	)	RAL बंद/ close		RAL खुला / open		RAL खुला / open		RAL बंद/ close	
635.	यदि लोको कि दोनो कैब में BP ओवर चर्जिंग होता है, तो संभावित दोष होगा-								N
	If BP overcharging takes place in both cab of the loco, the likely fault is in								
	a)	C ₂ RV	b)	अतिरिक्त/Additional C ₂ RV	c)	कम्प्रेसर कि क्षमता/	d)	SA ₉	
636.	स्टैटिक कन्वर्टर लोको में QCVAR (आर्नो फिटिड लोको) रिले के स्थान पर कौनसी रिले होती है-								O
	Corresponding relay in static converter loco to QCVAR in Arno fitted loco is--								
	a)	QSVM	b)	Q-SIT	c)	Q-CON	d)	कोई नहीं / None	
637.	तीन फेज लोको में लाइन कन्वर्टर परवर्तित कर सकता है-								P
	In 3 phase loco line converter can convert-								
	a)	AC से/to DC	b)	DC से/to AC	c)	दोनों ही/ Both	d)	कोई नहीं / None	
638.	RPS उपयोग किये जाता है / RPS is used for								Q
	a)	To stop TM over current.			b)	For over current of TFP winding.			
		TM औवर करंट रुक ने के लिए।				TFP वाइंडिंग ओवर करंट के लिए			
	c)	To limit the TM ripple current.			d)	To help field weakening.			
		TM कि रिपल् करंट को सीमित करने के लिए				फील्ड वीकेनिंग की सहायता के लिए			
639.	यदि QVCD इनर्जिज अवस्था में वेज किया जाता है, साथ ही IP वल्व आइसोलेट है, तो-								R
	If QVCD is wedged in energized condition, with IP valve isolated-								
	a)	लोको सामान्य काम करेगा/Loco will work normal			b)	DJ बंद नहीं होगा/DJ will not close.			
	c)	नॉच नहीं बढ़ेगा/Notch will not progress.			d)	इस में से कोई नहीं/None of these.			
640.	तीन फेज लोको में स्पीडोमीटर को आइसोलेट करने के लिए MCB को बन्द करें।								S
	To isolate the speedometer of 3 phase locomotive turn off MCB								
	a)	69.62	b)	69.71	c)	127.92	d)	127.1/2	
641.	SIV एवं MPCS लगा लोको में कितने OHE वोल्टेज प्राप्त किया जा सकता है?								T
	How many readings of OHE voltage can be obtained in a loco fitted with SIV and MPCS.								
	a)	1	b)	2	c)	3	d)		

642.	तीन फेज लोको में कन्ट्रोल इलेक्ट्रॉनिक्स का स्वीच OFF/ON करने के लिए किस एक का जरूरत नहीं है। U										
	Which one is not required for switching OFF/ON of control electronics in 3 phase locos.										
	a)	VCB	b)	पैन्टोग्राफ नीचे करें	c)	IP वल्व का आइसोलेट करें	d)	BL चाभी के बन्द करें			
	a)	Open VCB	b)	Lower Pantograph	c)	Isolate IP valve	d)	Turn BL key to OFF			
643.	QSIT रिले इनर्जाइज होने कि कारन- / QSIT relay may be energized due to										V
	a)	इन्टरनॉल फॉल्ट	b)	एक्सटरनॉल फॉल्ट	c)	कोई नहीं	d)	दोनों ही			
	a)	Internal fault	b)	External fault	c)	None	d)	Both			
644.	भू-दोष बाड़-पास मोड में SIV कार्य कर सकता है-										W
	The SIV can work in earth fault bypass mode for-										
	a)	1 मिनट/	b)	10 मिनट/ minute	c)	45 मिनट/ minute	d)	60 मिनट/ minute			
645.	MPCS को कार्यरत रखने के लिए न्यूनतम बैट्री वोल्टेज होना चाहिए-										X
	The minimum BA voltage required for working of MPCS is-										
	a)	85V	b)	90V	c)	95V	d)	100V			
646.	OHE तार के उपर पैन्टोग्राफ पैन कि संपर्क बल है-										Y
	The contact force of pantograph pan on OHE wire is-										
	a)	5 किजि/ Kg.	b)	6 किजि/ Kg.	c)	7 किजि/ Kg.	d)	8 किजि/ Kg.			
647.	HCHBA कि पोजिसन III अवस्था में क्या संकेत देंगे?										Z
	What is indicated when HCHBA is on position III										
	a)	CHBA तथा एममीटर दोनों कार्य करें				b)	CHBA कार्य करें तथा एममीटर बाड़बास				
	a)	CHBA and Ammeter both in service				b)	CHBA in service and Ammeter by passed				
	c)	CHBA तथा एममीटर दोनों असमर्थ				d)	CHBA असमर्थ				
	c)	CHBA and Ammeter both out of service				d)	CHBA out of service				
648.	कुछ लोकोमोटिव में BLSI को इसके ऑपर इन्टरलॉक द्वारा बदल किया गया है।										A1
	In some locomotives BLSI has been replaced by the upper interlock of										
	a)	QV-60	b)	QV-61	c)	QV-63	d)	QV-64			
649.	Q119 रिले का टाइम डिले सेटिंग हे- /Time delay setting of Q119 relay is-										A2
	a)	5 सेकंड/ sec.	b)	10 सेकंड/ sec.	c)	15 सेकंड/ sec.	d)	16 सेकंड/ sec.			
650.	रिजेनरटिव ब्रेकिंग मोड के समय मोटर कन्वर्टर बदलते है-										A3
	During regenerative braking mode motor converter converts										
	a)	AC से/to DC	b)	DC से/to AC	c)	दोनों ही/ Both	d)	कोई नहीं / None			
651.	स्टैटिक कन्वर्टर लोको में MVRF कि कन्टैक्टर है- / In a Static Converter Loco contactor of MVRF is										A4
	a)	C-107	b)	C-108	c)	C-105	d)	कोई नहीं / None			
652.	QE एक औवर करंट रिले है - / QE is over current relay for										A5
	a)	ATFEX	b)	TM	c)	TFP	d)	कोई नहीं / None			

बहुविकल्प प्रश्न: Optional Questions

653. ट्विन बीम हेड लाइट को निम्न में से सप्लाई मिलता है- A
Twin Beam Head light gets supply from
a) बैटरी/Battery b) आर्नो/ARNO c) TFP d) कोई नहीं / None
654. जब बैटरी को चालु किया जाता है, तो निम्न में से सर्वप्रथम कौनसी रिले पिक अप करेगा? B
When battery is put ON, which relay will pick up first of all?
a) Q44 b) Q45 c) Q118 d) Q46
655. किसी लोड में पीछे लगे हुए लोको को चलाते वक्त निम्न में से इस स्विच का प्रयोग होता है- C
While pushing the load from the back, which switch is used in the loco:-
a) ZPRD b) ZLFW c) ZBAN d) ZLDD
656. डेड लोको में निम्नलिखित न्युमेटिक कॉक की स्थिति होगी - D
What will be the position of pneumatic cocks in dead loco:-
a) 47 खुला / open b) 47 बंद/ close c) 47 खुला / open d) 47 बंद/ close
74 बंद/ close 74 खुला / open 74 खुला / open 74 बंद/ close
657. निम्न में से कौन लोको की सेफटी आइटम् नहीं है/ Which is not the safety item of loco- E
a) बफर b) फ्लैशर लाइट c) कैब फैन d) कोई नहीं
a) Buffer b) Flasher light c) Cab fan d) None
658. एयर ब्रेक सिस्टम् में ब्रेक सिलिंडर प्रेशर 3.8 केजी वर्ग सेमी तक पहुँचेगा जब: F
Brake cylinder pressure will reach 3.8 kg/cm² in air brake system when
a) BP 3.5 केजी वर्ग सेमी तक घटता है b) BP 0 केजी वर्ग सेमी तक घटता है
BP is reduced to 3.5 kg/cm² BP is reduced to '0'
c) इमरजेंसी ब्रेक प्रयोग किया जाता है d) उपरोक्त सभी
Emergency brake is applied All of the above.
659. हिताची ट्रैक्शन मोटर में अधिकतम शुरुआती करंट है- G
Maximum starting current in Hitachi Traction Motor
a) 900A b) 1000A c) 1100A d) 1200A
660. SIV लोको में मैन प्रसेसर कंट्रोल युनिट के बिना कौन सा रिले बदला नहीं जाता? H
Which relay is NOT replaced in SIV locos without main processor control unit?
a) Q30 b) QCVAR c) QOA d) Q100
661. WAG₉ लोको में पार्किंग ब्रेक का प्रावधान होता है व्हील संख्या - I
In WAG₉ locomotive parking brake is provided on wheel nos.
a) 1,4,5,8 b) 2,6,7,11 c) 2,5,8,12 d) कोई नहीं / None
662. निम्न में से किसकी वजह से Q51 उर्जित हो सकती है। J
Because of one of the following, Q51 may get energized-
a) Q50 b) Q52 c) PR-2 d) ZSMGR
663. यदि LSRSI लैम्प का LED फ्यूज अवस्था में हो तो लोको पायलट को ध्यान देना चाहिए- K
If LED for LSRSI lamp is in fused condition, loco pilot should keep a watch on-
a) टेल-टेल फ्यूज के प्रति/Tell-Tale Fuse b) RSI का HRC फ्यूज के प्रति / HRC Fuse of RSI
c) TM करंट को केवल 600A तक सीमित रखें/Restrict TM current to 600 A only d) MVSI-1 एवं 2 के कार्य के प्रति/ Working of MVSI 1 & 2
664. एयर ब्रेक सिस्टम् में ट्रेन ब्रेक लगाना सफल करने के लिए BP प्रेशर घटने का न्यूनतम दर होना चाहिए- L
For successful application of train brake in air brake system, the minimum rate of BP pressure reduction should be

- a) 6 सेकंड में 600 ग्राम b) 10 सेकंड में 600 ग्राम c) 1 मिनट में 600 ग्राम d) कोई नहीं / None
665. माइक्रोप्रोसेसर लोको में यदि दोनों ही डिसप्लेय यूनिट जवाब नहीं देता है तो निम्न में से जाँच करें **M**
In microprocessor loco if both Display units are not responding then check-
a) CCBA फ्यूज/fuse b) CCINV फ्यूज/fuse c) CCCPU फ्यूज/fuse d) सभी को/All above.
666. यदि QVCD इनर्जाइज अवस्था में वेज किया जाता है, साथ ही IP वाल्व आइसोलेट है, तो- **N**
If QVCD is wedged in energized condition, with IP valve isolated-
a) लोको सामान्य काम करेगा/Loco will work normal b) DJ बंद नहीं होगा/DJ will not close.
c) नॉच नहीं बढ़ेगा/Notch will not progress. d) इस में से कोई नहीं/None of these.
667. BPFA लगा होता है / BPFA is provided in **O**
a) पैनल A में / Panel A b) पैनल B में / Panel B
c) पैनल C में / Panel C d) पैनल D में / Panel D
668. स्टैटिक कन्वर्टर में यदि कोई भूल वार्ता है, तो DJ ट्रिप करने की माध्यम- **P**
If any fault message in static converter, DJ will trip through
a) QCON b) QSIT c) QSVM d) सभी/ All
669. दोनों कैब हीटर एवं कैब फैन बंद करना है किंतु नॉच रिपीटर को चालु अवस्था में रखना है, तो HRAVT को **Q**
निम्न अवस्था में रखना होगा-
To isolate both cab heaters and cab fans but to keep notch repeater (NR) in service, keep HRAVT in position
a) 0 b) 1 c) 2 d) 3
670. लोको में AFI वास्तविक रूप से दिखाता है- / The AFI in a locomotive actually shows:- **R**
a) लोड में लिकेज है b) लोको एवं लोड में लिकेज है
The leakage in the load The leakage in the load and loco.
c) BP प्रेशर चर्जिंग का दर d) MR प्रेशर चर्जिंग का दर
The rate of charging BP pressure/ The rate of charging MR pressure.
671. अगर CCRA फ्यूज बार-बार गलता है, कहाँ पर दोष हो सकता है- **S**
If CCRA fuse melts repeatedly, problem (fault) may be at:
a) कैब फैन b) कैब हीटर c) ट्रैक्शन मोटर d) TF ऑयल पांप मोटर
a) Cab Fan b) Cab heater c) TM d) TF oil pump motor
672. CCINV फ्यूज की क्षमता है / Capacity of CCINV fuse is - **T**
a) 6A b) 15A c) 12A d) कोई नहीं /
None
673. जब सेंट्रल इलेक्ट्रॉनिक्स का तापमान 70°C से अधिक होता है, निम्न में से जलेगा- **U**
When temperature of central electronics goes beyond 70°C, which will glow:-
a) LSAF b) LSOV c) LSDJ d) LSCE
674. यदि रिले QRS डि-इनर्जाइज होता है तो / If relay QRS is de-energised then **V**
a) DJ ट्रिप करेगा b) नॉच नहीं बढ़ेगा c) MCP काम नहीं करेगा d) कोई नहीं
a) DJ will trip b) Notch will not progress c) MCP will not work d) None
675. RS प्रेशर पैदा करते वक्त निम्न कॉक की स्थिति होगी- **W**
While developing RS pressure, the position of the following cocks will be-
a) R-1 बंद/close b) R-1 खुला/ open c) R-1 बंद/ close d) R-1 खुला/ open
RAL बंद/ close RAL खुला / open RAL खुला / open RAL बंद/ close
676. यदि लोको कि दोनों कैब में BP ओवर चर्जिंग होता है, तो संभावित दोष होगा- **X**

If BP overcharging takes place in both cab of the loco, the likely fault is in

- a) C₂ RV b) अतिरिक्त/Additional C₂ RV c) कम्प्रेसर कि क्षमता/Compressor capacity d) SA₉ वल्व/ valve

677. यदि नो टेनशन के चलते DJ ट्रिप करें, तो नॉच निम्न माध्यम से रिग्रेस करेगा-

If DJ trips due to no tension then notch will regress through

- a) Q51 b) Q52 c) Q50 d) QRS

678. रियॉस्टैटिक ब्रेकिंग की कॉन्टैक्टर है । / Contactor of rheostatic braking-

- a) C145 b) C108 c) SWC d) कोई नहीं /None.

679. स्टैटिक कन्वर्टर लोको में QCVAR (आर्नो फिटेट लोको) रिले के स्थान पर कौनसी रिले होती है-

Corresponding relay in static converter loco to QCVAR in Arno fitted loco is--

- a) QSVM b) Q-SIT c) Q-CON d) कोई नहीं / None

680. तीन फेज लोको में, ट्रक्शन मोड के समय, लाइन कन्वर्टर परवर्तित करता है-

In 3 phase loco, during traction mode, line converter can convert-

- a AC से/to DC b) DC से/to AC c) दोनो ही/ Both d) कोई नहीं / None)

681. RPS उपयोग किये जाता है / RPS is used for

- a) TM औवर करंट रुक ने के लिए। Preventing TM over current. b) TFP वाइंडिंग ओवर करंट के लिए TFP winding overcurrent. c) TM कि रिपल करंट को सीमित करने के लिए To limit ripple current in TM. d) फील्ड वीकेनिंग की सहायता के लिए To assist field weakening.

682. यदि QVCD इनर्जाइज अवस्था में वेज किया जाता है, साथ ही IP वल्व आइसोलेट है, तो-

If QVCD is wedged in energized condition, with IP valve isolated-

- a) लोको सामान्य काम करेगा/Loco will work normal b) DJ बंद नहीं होगा/DJ will not close. c) नॉच नहीं बढ़ेगा/Notch will not progress. d) इस में से कोई नहीं/None of these.

683. तीन फेज लोको में स्पीडोमिटर को आइसोलेट करने के लिए MCB को बन्द करें।

To isolate the speedometer of 3 phase locomotive turn off MCB

- a) 69.62 b) 69.71 c) 127.92 d) 127.1/2

684. SIV एवं MPCPS लगा लोको में कितने OHE वोल्टेज प्राप्त किया जा सकता है?

How many readings of OHE voltage can be obtained in a loco fitted with SIV and MPCPS.

- a) 1 b) 2 c) 3 d)

685. तीन फेज लोको में कन्ट्रोल इलेक्ट्रॉनिक्स का स्वीच OFF/ON करने के लिए किस एक का जुररत नहीं है।

Which one is not required for switching OFF/ON of control electronics in 3 phase locos.

- a) VCB खुलें b) पैंटोग्राफ नीचे करें c) IP वल्व का आइसोलेट करें d) BL चाभी के बन्द करें

- a) Open VCB b) Lower Pantograph c) Isolate IP valve d) Turn BL key to OFF

686. QSIT रिले इनर्जाइज होने कि कारन-

QSIT relay may be energized due to

- a) इन्टरनॉल फॉल्ट b) एक्सटरनॉल फॉल्ट c) कोई नहीं d) दोनो हीं
687. भू-दोष बाइ-पास मोड में SIV कार्य कर सकता है- I1
The SIV can work in earth fault bypass mode for-
a) 1 मिनट/ minute b) 10 मिनट/ minute c) 45 मिनट/ minute d) 60 मिनट/ minute
688. MPCS को कार्यरत रखने के लिए न्युनतम बैट्री वोल्टेज होना चाहिए- J1
The minimum BA voltage required for working of MPCS is-
a) 85V b) 90V c) 95V d) 100V
689. OHE तार के उपर पैंटोग्राफ पैन कि संपर्क बल है- K1
The contact force of pantograph pan on OHE wire is-
a) 5 किजि/ Kg. b) 6 किजि/ Kg. c) 7 किजि/ Kg. d) 8 किजि/ Kg.
690. HCHBA कि पोजिसन III अवस्था में क्या संकेत देंगे? L1
What is indicated when HCHBA is on position III
a) CHBA तथा एममीटर दोने कार्य करें b) CHBA कार्य करें तथा एममीटर बाइबास c) CHBA तथा एममीटर दोनो असमर्थ d) CHBA असमर्थ
- a) CHBA and Ammeter both in service b) CHBA in service and Ammeter by passed c) CHBA and Ammeter both out of service d) CHBA out of service
691. कुछ लोकोमोटिव में BLSI को इसके ऑपर इन्टरलॉक द्वारा बदल किया गया है। M1
In some locomotives BLSI has been replaced by the upper interlock of
a) QV-60 b) QV-61 c) QV-63 d) QV-64
692. Q119 रिले का टाइम डिले सेटिंग हे- N1
Time delay setting of Q119 relay is-
a) 5 सेकंड/ sec. b) 10 सेकंड/ sec. c) 15 सेकंड/ sec. d) 16 सेकंड/ sec.
693. QTD-105 कॉयेल में भू-दोष को कारण निम्न में से एक गल (मेल्ट) सकता है। O1
Earth fault in the coil of QTD-105 causes melting of -
a) सी.सी.बी.ए b) सी.सी.पी.टी c) सी.सी.डी.जे d) सी.सी.ए
a) CCBA b) CCPT c) CCDJ d) CCA
694. WAG7 लोको में QD-2 निम्न के बीच लगा होता है- P1
Relay QD-2 in WAG7 is connected between-
a) TM2-TM3 b) TM3-TM4 c) TM4-TM5 d) TM5-TM6
695. यदि QLM ड्रॉप करे तथा ट्रांसफार्मर के चारों तरफ तेल फैला हुआ मिले तो लोको पायलट को चाहिए: Q1
If QLM relay is dropped and found oil spilled over from transformer LP should
a) लोको के फेल करे तथा शट डाउन करे। b) QLM को री-सेट करे तथा DJ बंद करे।
Fail the locomotive and shut down Reset QLM and close DJ

- c) QLM को री-सेट करे तथा DJ बंद करे यदि TFP आयल की सतह सही हो।
Reset QLM and close DJ if TFP oil level is OK
- d) अग्न शामक यंत्र प्रयुक्त करे।
Charge fire extinguisher.
696. DBR अत्यधिक प्रभावी होता है-
The DBR is most effective-
- a) उच्च चाल पर At high speed b) निम्न चाल पर At low speed c) चाल पर निर्भरता नहीं Not dependent on speed d) कोई भी नहीं/None
- 45 LSB बत्ती के सिग्नलिंग रिले है/ The signaling relay of LSB lamp is
- a) QV60 b) QV62 c) QV63 d) QV64
- 46 QF रिले करंट को सीमित करता है- / QF relay limits the current-
- a) RF में बहाव/Flowing in RF b) TM के फील्ड सर्किट में बहाव/Flowing through field circuit of TM.
- c) RSI-1 में बहाव/Flowing through RSI-1 d) RSI-2 में बहाव/Flowing through RSI-2
697. WAG₅ लोको में पार्किंग ब्रेक का प्रावधान होता है व्हील संख्या -
In WAG₅ locomotive parking brake is provided on wheel nos.
- a) 1,4,5,8 b) 2,6,7,11 c) 2,5,8,12 d) कोई नहीं / None
698. यदि नो टेन्शन के चलते DJ ट्रिप करें, तो नॉच निम्न माध्यम से रिग्रेस करेंगे-
If DJ trips due to no tension then notch will regress through-
- a) Q51 b) Q52 c) Q50 d) QRS
699. QPDJ की सही सेटिंग है / Correct setting of QPDJ is -
- a) 4.5kg/cm² खुला/Open, 5.5kg/cm² बंद/close, b) 4.5kg/cm² बंद/close, 5.5kg/cm² खुला/Open
- c) 4.5kg/cm² खुला/Open, 6.8kg/cm² बंद/close, d) 5.5kg/cm² खुला/Open, 6.5kg/cm² बंद/close,
700. अगर CCRA फ्यूज बार-बार गिलता है, कहाँ पर दोष हो सकता है-
If CCRA fuse melts repeatedly, problem (fault) may be at-
- a) कैब फैन/Cab fan b) कैब हीटर/Cab heater c) ट्रेक्शन मोटर/TM d) ट्रान्सफरमर अयेल पम्प मोटर/TF oil pump motor.
701. QSVM में 2" देरी का कार्य है- / Function of 2" delay in QSVM is-
- a) SIV के समुचित चालु होने को सुनिश्चित करना।
To ensure proper starting of SIV
- b) ऑक्जीलियरी कान्टैक्टर के समुचित बंद होने को सुनिश्चित करना।
To ensure proper closing of auxiliary contactors
- c) आउटपुट वोल्टेज को अनुकूलन के सुनिश्चित करना।
To ensure building up of the output voltage
- d) शुरुआती करंट धक्कामुक्की(इनरश) को सीमित करना।
To limit the inrush current at starting.
702. GR आधा नॉच प्रोटेक्शन रिले है-
The GR half notch protection relay is-
- a) Q48 b) Q46 c) Q45 d) Q44
703. C118 कन्टैक्टर कॉइल में भू दोष के कारण निम्न में से एक फ्यूज गल (मेल्ट) हो जाएगा।
Earth fault in C118 contactor coil causes the following fuse to melt-
- a) CCBA b) CCPT c) CCDJ d) CCA
704. LSB का बुझना निम्न एक रिले का इनर्जाइज होने को इन्डिकेट करता है-
Extinction of LSB indicates energization of -
- a) Q-48 b) Q-50 c) Q-51 d) QRS

705. लोकोमोटिव में LT सर्किट को गैज वोल्टेज के विरुद्ध इसके द्वारा रक्षा होता है- C2
LT circuit in locomotive is protected against gauge voltage by-
a) ET-1 b) ET-2 c) LTBA d) QLM
706. MTDJ कॉयेल (VCB) एक- / MTDJ coil (VCB) is a - D2
a) DJ क्लोजिंग कॉयेल/DJ closing coil b) DJ होल्डिंग कॉयेल/DJ holding coil.
c) DJ ट्रिपिंग कॉयेल/DJ tripping coil. d) DJ होल्डिंग एवं ट्रिपिंग कॉयेल /DJ holding and tripping coil.
707. जब SIV में कोई दोष है, DJ निम्न में से एक द्वारा ट्रिप होगा- E2
Whenever there is a fault in the SIV, DJ is tripped by-
a) QSVM b) QCVAR c) QSIT d) Q-118
708. यदि लोको बंद है किन्तु सभी पायलट लैम्प जल रहा है, तो जाँच करें- F2
If loco closed but all pilot lamps are not glowing then check-
a) CCDJ एवं CCPT b) CCBA एवं CCLS c) CCLS एवं d) CCDJ एवं CCA
अतिरिक्त
CCBA
a) CCPT and CCDJ b) CCBA and CCLS c) CCLS and d) CCDJ and CCA
addl CCBA
709. तीन फेज लोको में PTDC जुड़ा हुआ है- / PTDC in three phase loco is linked with - G2
a) ब्रेक सिस्टम् b) पैंटोग्राफ c) DC-DC कन्वर्टर d) फ्यूज पैनल
a) Brake system b) Pantograph c) DC-DC converter d) Fuse panel
710. MU आप्रेशन में यदि अंतिम लोको के CHBA फेल करे, तो पहले लोको की निम्नलिखित लैम्प जलेगा- H2
In MU operation if CHBA of rear loco fails, the following lamps will glow in front loco-
a) केवल LSCHBA b) LSCHBA एवं LSOL c) केवल LSOL d) LSDJ, LSCHBA एवं LSOL.
a) Only LSCHBA b) LSCHBA & LSOL c) Only LSOL d) LSDJ, LSCHBA and LSOL.
711. EEC की सफल आप्रेशन के लिए MP को रखना है- I2
For successful operation with the EEC, MP should be kept at-
a) 0 b) N c) + d) कहीं भी / Anywhere.
712. आप्रेशन _____ में ट्रिपिंग होगा, यदि ब्लोयर कन्टैक्टर बंद नहीं किया गया। J2
Tripping will take place in operation _____ if blower contactors are not closed.
a) IA b) IB c) O d) कोई नहीं / None of these.
713. एकक ABB लोकोमोटिव में काम करते समय यदि ZBAN स्वीच ऑन करें तो- L2
If ZBAN switch is made 'ON' while working with single ABB locomotive-
a) कोई असुविधा नहीं होगी। b) DJ ट्रिप करेगा। c) BP '0' में ड्रॉप करेगा। d) MR '0' में ड्रॉप करेगा।
a) No trouble will occur b) DJ will trip c) BP will drop to '0' d) MR will drop to '0'.

सही उत्तर दीजिए: Write the correct answer

714. WAG7 लोको में पार्किंग ब्रेक का प्रावधान निम्न चक्के में रहता है।
Parking brake has been provided on wheel no. in WAG7 loco-
a) 1,4,5,8 b) 2,6,7,11 c) 2,5,8,12 d) कोई नहीं / None
715. यदि सभी पायलट बत्ती नहीं जले तो निम्न फ्यूज को जाँच करें-
If all pilot lamps are not glowing then check fuse
a) CCBA b) CCLS c) CCA d) CCDJ

716. CCINV फ्यूज की रेटिंग है- /The rating of CCINV fuse is
a) 16A b) 35A c) 6A d) कोई नहीं/None
717. WAG7 लोको में QD सेटिंग है / QD setting WAG7 loco is
a) 125 Amp b) 160 Amp c) 90 Amp d) 140 Amp
718. कैब हीटर के लिए निम्न में से कौन स्विच है?
Which of the following switch is for Cab Heater?
a) BLRA b) BLPR c) BLLF d) BLLM
719. सार्ज वोल्टेज पर कंट्रोल सर्किट में क्या संरक्षण है?
What is the protection of control circuit against surge voltage?
a) Fuse b) LTBA c) QLA d) कोई नहीं/None
720. 1/100 ग्रेडियंट में WAG7 लोको ____ टन लोड खींच सकता है।
WAG7 loco can haul ---- ton load on 1/100 gradient
a) 4738 टन/Tons b) 3600 टन / Tons c) 1700 टन / Tons d) 3002 टन / Tons
721. अधिकृत ब्लॉक सेक्शन में रिलिफ इंजन/ट्रेन को आगे बढ़ाने के लिए प्राधिकार का फॉर्म संख्या क्या है-
What is the form number of Authority to Proceed for Relief Engine/Train into an occupied block section.
a) T/A 602 b) QPT 27 c) T/369(3b) d) T/A 409
722. रियाॅस्टैटिक ब्रेकिंग का कन्टैक्टर है- / Contactor of Rheostatic braking
a) C145 b) C108 c) SWC d) कोई नहीं/None
723. RGCP की सेटिंग है/ Setting of RGCP is-
a) 8.5-9.5 kg/cm² b) 8.0-9.5 kg/cm² c) 8.0-10 kg/cm² d) सभी / All.
724. नो टेनसन के समय DJ ट्रिप करेगा निम्न के माध्यम से
DJ trips in case of no tension on line through
a) Q51 b) Q52 c) Q50 d) Q30
725. यदि रिले QRS डि-इनर्जाइज होता है, तो- / If relay QRS is de-energized then-
a) DJ ट्रिप करेगा b) नाॅच नहीं बढ़ेगा c) MCP काम नहीं करेगा d) कोई नहीं/None
DJ will trip Notch will not progress MCP will not work
726. खाली BCN टाइप वैगन ---- गति तक चलने के लिए फीट है
Empty BCN type wagons are fit for speeds up to
a) 100 Kmph b) 80 Kmph c) 65 Kmph d) 40 Kmph
727. RB के समय MP को पहले रखना है –
At the time of RB, MP should be placed first on
a) P b) N c) + d) कोई नहीं/None
728. लोके में बैटरी का न्यूनतम वोल्टेज है/Minimum voltage of battery in locomotive is
a) 110V b) 90V c) 85V d) 380V
729. यदि अक्जिलियरी पावर सर्किट में आर्थ फॉल्ट है, तो कौन सा रिले इनर्जाइज होगा?
Which relay gets energized in case of earth fault in Auxiliary Power Circuit?
a) QLM b) QLA c) QOP d) QOA
730. मार्कर लाईट के लिए निम्न में से कौन स्विच है?
Which of the following switch is for Marker Light?
a) BLRA b) BLPR c) BLLF d) BLLM
731. तीन फेज लोको में जब सेंट्रल इलेक्ट्रॉनिक्स का तापमान 70° से अधिक होता है, निम्न में कौन जलेगा?
In three phase loco, when temperature of central electronics goes beyond 70°C, which will glow?

- a) LSAF b) LSOV c) LSDJ d) LSCE
732. WAG5(हिताची) लोको एक यात्रीवाही ट्रेन के साथ जुड़ा है एवं इसके चालक कैब के स्पीडोमीटर कार्य नहीं कर रहा है, कितनी गति से इस ट्रेन को चलाना चाहिए जाँहाँ कोई स्पीड रेस्ट्रिक्शन नहीं है।
WAG5(Hitachi) Loco is attached to a passenger train and its speedometer in the driving cab is not working. At what speed should the train be run where there is no speed restriction on the track.
a) 105 b) 110 Kmph c) 80 Kmph d) 70 Kmph के आस-पास/ Around 70 Kmph Kmph
733. क्लोज सर्किट रैक के लिए B श्रेणी डिपो से दिया गया ब्रेक पावर सर्टिफिकेट मान्य है-
Brake Power Certificate of Close Circuit rakes of B category depots is valid for
a) 4500 किमी तक / 4500 Kms. b) 40 दिन तक / 40 days.
c) 3000 किमी तक / 3000 Kms. d) सिर्फ वापसी ट्रिप तक, दिन एवं किमी को विचीर किए बिना / Return trip only, irrespective of days and kilometers.
734. जब सेंट्रल इलेक्ट्रॉनिक्स का तापमान 70^0 से अधिक होता है, निम्न में से जलेगा
When temperature of central electronics goes beyond 70^0C , which will glow
a) LSAF b) LSOV c) LSDJ d) LSCE
735. किसी लोड में पीछे लगे हुए लोको को चलाते वक्त निम्न में से किस स्विच का प्रयोग होता है?
While pushing the load from the back, which switch is used in the loco?
a) ZPRD b) ZLFW c) ZBAN d) ZLDD
736. CCPT फ्यूज का रेटिंग है- / Rating of CCPT fuse is
a) 16A b) 35A c) 6A d) कोई नहीं/None
737. डेड लोको में निम्नलिखित न्युमेटिक कॉक का स्थिति होगी-
What will be the position of pneumatic cocks in dead 3 phase loco:-
a) 47 खुला / b) 47 बंद/ close c) 47 खुला / open d) 47 बंद/ close
open 74 खुला / open 74 खुला / open 74 बंद/ close
74 बंद/
close
738. BA वोल्टेज OK दिखाता है, परन्तु लोको में कन्ट्रोल सप्लाई उपलब्ध नहीं, कारण क्या हो सकता है
BA voltage showing OK but control supply is not available in loco, what may be the cause?
a) HBA ऑफ / HBA 'OFF' b) CCBA गलना /CCBA melt.
c) MA MCB ट्रिप हुआ /MA MCB d) सभी / All above.
tripped.
739. डायनामिक ब्रेकिंग मोड में एफोर्ट निर्भर करता है-
Braking efforts in dynamic braking mode depends on
a) शंटिंग नॉच / Shunting notches b) ट्रेन की भार / Train weight
c) ट्रेन की गति / Train Speed d) लोको की भार / Loco Weight
740. छठे नॉच में ट्रिपिंग का कारण हो सकता है / Sixth notch tripping can be caused by
a) C118 b) C145 c) C106 d) C101
741. QV62 निम्न का सिग्नलिंग रिले है- / QV62 is signaling relay of
a) LRSI b) LSDJ c) LSB d) LSGR
742. हिताची टाईप के ट्रैक्शन मोटर कि अधिकतम करंट लिमिट होता है /
The maximum current limit of Hitachi type Traction motor is -
a) 1100A b) 1200A c) 900A d) कोई नहीं/None
743. कन्टैक्टर MVRF है (लोको में स्टैटिक कन्वर्टर लगा हुआ है)
Contactor for MVRF is (static converter fitted loco)

- a) C118 b) C106 c) C107 d) कोई नहीं/None

744. निम्न में से कौन EP कांटेक्टर है/Which of the following is EP contactor -
 a) C-145 b) C-118 c) CTF-3 d) CGR-1
745. GR के मैन्युअल ऑपरेशन के समय MP को निम्न अवस्था में रखा जाता है।
 At the time of Manual operation of GR, MP should be placed on
 a) 0 b) N c) + d) कोई नहीं / None
746. निम्न में से कौन से रिले को वैज करना मना है?
 Wedging of which of the following relay is prohibited?
 a) Q-44 b) Q-118 c) QRS d) कोई नहीं / None
747. GR के मैन्युअल नियंत्रण के लिए, MP का पोजीशन होना चाहिए-
 For manual control of GR, position of MP should be on
 a) VE-1, VE-2, CPA,J b) VE-1, VE-2, MCPA,J
 c) VE-2, VE-1, CPA,J d) VE-2, VE-1, MCPA,J
748. PV-2 का कॉन्टेक्टर है - / Contactor of PV-2 is -
 a) C-145 b) C-108 c) C-121 d) कोई नहीं/None
749. नो टेंशन के कारण DJ निम्न रिले के माध्यम से ट्रिप करेगा
 DJ trips in case of NO Tension on line through-
 a) Q-51 b) Q52 c) Q50 d) Q30
750. MU परिचालन में GR सिन्क्रोनाइजेशन रिले है/GR synchronizing relay in MU operation is
 a) Q49 b) Q50 c) Q51 d) Q52
751. WAG₅ लोको में हैंड ब्रेक निम्न चक्के में लगता है/Hand Brake in WAG5 loco is applied in Wheel No-
 a) 1,4,5,8 b) 2,6,7,11 c) 1,3 d) 2,4
752. जब HMCS-2 को स्थिति(1) में रखते हैं, तो निम्न में से कौन मोटर आइसोलेट किया जाता है-
 When HMCS-2 is placed on position 1, which motor is isolated?
 a) 4 b) 5 c) 6 d) कोई नहीं/None
753. यदि सभी ऑक्जिलियरी मशीन कार्य न करें तो जाँच करें /If all auxiliary not working then check
 a) CCBA b) CCPT c) CCA d) CCLSA

754. यदि MPH काम नहीं करेगा तो / If MPH does not function then
- | | |
|--------------------------------------|---------------------------------|
| a) ऑप्रेशन-B में DJ ट्रिप करेगा | b) DJ ट्रिप नहीं करेगा |
| a) DJ will trip in Opn-B | b) DJ will not trip |
| c) LSCHBA जलेगा और DJ ट्रिप करेगा | d) ऑप्रेशन-A में DJ ट्रिप करेगा |
| c) LSCHBA will glow and DJ will trip | d) DJ will trip in Opn-A |

755. In CO-CO system bogie No. of wheel per bogie is (Three/Two/Four/Six)

756. AM 92 is a type of (Compressor/Transformer/ Pantograph/None of these)

757. The bogie of a WAG7 is called (Flexi Coil/Tri-Mount/ High Adhesion bogie/Flxi-Mount)

758. Blower for cooling SL is called (MVMT/MVSL/MPH/None of these)

759. Continuous power rating of a WAG7 is (4000HP/5000HP/6000HP/7000HP)

760. A9 is a (Safety Relay/Pressure Gauge/Brake Valve/Gauge)

761. C3W is a (Distributor Valve/ Relay Valve/Gauge/Safety Valve)

762. Rectifier is used in Locomotive (To convert AC TO DC/ To filter AC ripple/To step down the voltage/None of these)

763. Pneumatic Brake system of Locomotive is operated by (Electrical power/ Compressed air/Mechanical system/Electrical & Mechanical both)

764. Traction motor used In conventional Locomotive is (DC series motor/AC motor/ DC Shunt motor/None)

765. Input of a Locomotive Transformer is (1500 V DC/25 KV AC/25 KV DC/None)

766. CBC is used in a Locomotive to (Coupling to the coaches & wagon/Coupling brake pipe to coaches & wagon/ Coupling electrical Ckt. Of coaches/All of these)

767. SL is used in Locomotive to (convert AC to DC/ Filter AC ripple/arrest the surge voltage/for earthing)

768. Pantograph is operated by (Pneumatic power/Electrical power/Mechanical power/None)

769. ARNO Converter is used to (Convert AC to DC/Convert the polarity of supply/Convert single phase to Three phase/Reverse the direction)

770. Number of notches can be obtained in master controller is (32 /24/16/8)

771. VCD is a device used in Locomotive to (Alert driver from TFP overloading/Alert driver from fire/Alert driver in every minute to get attention/None of these)

772. Numbers of Bogie in a Locomotive are (One/Two/Three/None of these)

773. SIV is used to (Convert AC to DC/Convert Single Phase to Three Phase/Step down the input voltage/None)

774. In Three phase Locomotive the type of Traction Motor is (DC series Motor/AC split phase motor/AC Three Phase motor/ DC Shunt Motor)

775. In Three phase Locomotive main Input supply is (3 Phase/1 Phase/2 Phase/None of these)

776. SA9 brake is applied for (Loco & Coaches/Only Coaches/ Only Loco / None of these)

777. DC-DC converter is used in a Locomotive for (Head Light/ Horn/Wiper/ None of these)

778. Air-Dryer is used in a Locomotive to (Dry air for RSI panel/ Dry air for VCB/Dry air for Pneumatic devices/ Dry air for BA panel)

779.BP pressure in Locomotive is maintained always (3.5 kg/sq.cm/10 kg/sq.cm/5 kg/sq.cm/6 sq.cm.)

780.FP pressure in Locomotive is maintained always (6 kg/sq.cm/7 kg/sq.cm/5 kg/sq.cm/4 kg/sq.cm/)

781.Numbers of poles in a Locomotive(Conventional) Traction motor is (6/4/8/9)

782.Cooling system of Locomotive Transformer is (Air/Water/Oil/None of these)

783.DJ is (Main Circuit Breaker/Safety Relay/ Pneumatic valve/None of these)

784.Baby compressor is operated by (12 V DC/ 24 V DC/110 V DC/220 V AC)

THREE PHASE LOCOMOTIVE MCQ BANK

Choose the correct option from the alternatives.

785.Which one among the following is a three phase locomotive ---- i)WAG7, ii)WAP4,iii)WAG9

786.The traction motor used in 3 phase loco is --- i)DC series motor, ii)Squirrel cage induction motor, iii)Reluctance motor.

787.The type of TM used in WAG9 is--- i) HS15250A, ii)TAO 659, iii) 6FRA6068.

788.The cooling arrangement of IGBT based 3 phase loco converter is – i) forced oil cooled, ii) water cooled, iii)forced air cooled.

789.In VVVF drives, VVVF stands for --i)variable voltage variable frequency,ii) variable voltage velocity factor,iii) voluntary verification of variable force.

790.The number of scavenger motor in a 3 phase locomotive is i) 2, ii) 3, iii) 4.

791.The type of TFP used in 3 phase loco is – i)CGTT 5400, ii)NGTT 3900, iii)LOT 6500.

792.Auxiliary converter is denoted by --- i)MUB, ii)BUR I,II and III, iii)NSR.

793.Full form of GTO is —i)Gate Turn-off Thyristor, ii)Geared Traction Output, iii)Gate Triggered Oscillator.

794.The voltage rating of 3 phase TM is –i)1850 V, ii)2180 V, iii) 2500 V.

795.The cooling arrangement of 3 phase TM is --- i)oil cooled, ii)forced air cooled, iii)water cooled.

796.The no. of line converters in a 3 phase loco is —i) 2, ii)3, iii)4.

797.The capacity of compressor in a 3 phase loco is i)1000 LPM, ii)1250 LMP, iii)1500 LPM.

798.The generation of traction control used in 3 phase loco is called i)MICAS-S2, ii)ENTAS-D3, iii)MICONTC-3.

799.Regenerative braking can be used in – i) WAP4, ii) WAG5, iii)WAP7.