SOUTH CENTRAL RAILWAY

TRACTION ROLLING STOCK OPERATIONS SECUNDERABAD

QUESTION BANK
For
CHIEF LOCO INSPECTORS SELECTION

Sr. DIVISIONAL ELECTRICAL ENGINEER SECUNDERABAD

INDEX

Model Question Paper

Written Examination for selection of Chief Loco Inspector
SC Division

Max. Marks:100
Time: 3 Hrs.

Instructions:

The question paper is divided into 2 groups (A&B).The candidates are advised to attempt both the Groups.

Group – A

I. Answer any 10 of the following. All the questions will carry equal marks.

10x5=50

1 Draw a neat sketch of pantograph
2 Write the troubleshooting for **external fault** indication in static converter provided locos?
3 Write the No. of all standard form forms used in D&AR
4 How many types of switches provided in electric locomotives and explain each of them.
5 Write about exchanging of **alright signals**
6 a) What are the occasions that auto-regression of GR takes place write with trouble shooting?
b) How many ways relay Q118 will energies?
7 How you will improve the 'C' grade loco pilot to higher grades.
8 What is the procedure to impose minor penalty
9 a) Distinguish between Excluding and Continuous category
b) Distinguish between Supernumerary posts and Temporary post
c) Write the entitlement restrictions of various passes to running staff
10 a) List out the categories under HOER and indicate rostered hours of each category?
b)Expand the following
1) RITES 2) IRIEEN 3) COFMOW 4) RDSO 5) CORE 6) FOIS 7) COIS 8) IVRS 9) CRIS 10) IRISET
c) How many employees are required if 2 members working in a shift of 12 hrs roster and 8 hrs roster
11 Being a first official to the accident spot of train passed a stop signal at 'ON' how you will deal the situation.
12 a) Name of the Articles of constitution under which provisions for official language are made
b) Explain the Rule 12 of the official language Rules, 1976.

Group – B

II. Answer all the questions. All questions will carry equal marks. **20X1=20**

1. Electrolyte used in cell is _____ ( )
   a) H_2SO_4 b) HCL
   c) Diluted $H_2 SO_4$ d) H_2o

2. If two single passes applies at a time, the route will be ( )
   a) same b) different
   c) not permitted d) a or b

3. 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

4 .Official language day is ( )
   a) 16th September b) 15th September
   c) 13th September d) 14th September

5. Nomenclature of C2A is _____ ( )
   a) A29 b) A24
   c) A31 d) A48

6. Averted collision comes under _____ classification of accident. ( )
   a) Unusual incidents b) Indicative accidents
   c) Train accidents d) Equipment failure

7. Number of days can be granted as quarantine leave. ( )
   a) 15 b) 20 c) 25 d) this leave is not existing

8. Loss of one thumb will comes under _____ % of disablement. ( )
   a) 10% b) 30% c) 50 % d) 70 %

9. S-1313 form used for ( )
   a) stocked item b) Non-stocked item
   c) local purchase d) short tender

10. _____ shall be used as 4th communication facility between two block stations.
   a) Axle counters b) track circuit ( )
   c) Auto telephone d) block telephone

11.Fusee when lighted will display bright red flame, which will last for_____Minutes
   A: 10 to 15 B: 8 to 10 ( )
   C: 3 to 5 D: 5 to 7

12. How many wagons hand brakes shall be applied before detaching the TE of a train w/o BV in station limits where the gradient is steeper than 1/260
   A: 12 B: 16 ( )
   C: 18 D: 06

13. Gate signal is identified by _____ marker
   A: A B: C ( )
   C: G D: T

14.How many wagons hand brakes shall be applied before detaching TE of a train in station limits where the gradient is steeper than 1/260 ( )

A: BV + 12 wagons B: BV + 06 wagons

C: Only BV D: BV + 18 wagons

Duties of staff on arrival 4.57 A

15. 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

16. One of the following is not a personal equipment of the driver

A: Red flag B: Green flag ( )

C: whistle D: Working Time Table

17. On telephone pole brackets , the wire painted in Green colour connects to

A: Deputy control line B: Section control line ( )

C: Power controller line D: Commercial controller line

18. On single line immediately after the arrival of a stopping train, the points in rear and in front shall be set _____line. ( )

A: For the loop line B: To the occupied mainline

C: Against occupied line D: Against siding line

19. On Electrified territory the telephone connection provided on electric Masts, connects to ( )

A: Power controller B: Traction power controller

C: Commercial controller D: Deputy controller

20. Normally, the material train shall be ordered by _____ time only. ( )

A: Night B: Day

C: Foggy and tempteous weather D: None of these

III. Fill in the blanks. All questions will carry equal marks. 30x1=30

1. If any fault exists Aux.power circuit of microprocessor loco, that will be indicated through _____
2. RGEB2 connected on _____ pipe line
3. The speed of the relief engine during night time in absolute block system___
4. Authority to pass advance starter in double line automatic system _____
5. Beyond _____ years age son not eligible for privilege pass.
6. Number of post retirement passes for group-'C' 33 years service completed retired employee is _____
7. _____ is suspension revoked standard form.
8. A retired Railway employee shall not have morethan _____ cases to act as defence helper.
9. The running staff roster under HOER comes under _____
10. The intensive roster staff working hours per day will be_____
11. The workmen compensation act in force with effect from _____
12. Expand the PNM _____
13. Maternity leave will be sanctioned for ____ days for _____ employees.
14. ____ days shall be admissible for leave encashment.
15. A Railway employee after retirement may permit ____ days to retain the Railway quarters.
16. Expand LHAP_____
17. After ordering within _____ minutes the ART should leave.
18. The running staff _____national holidays may be availed in a calendar year
19. The abbreviation of RDSO _____
20. The running staff member after attaining of 45 yrs. age should undergo for PME once in _____ years.
21. Lower pantograph caution order will be given during_____
22. When 'B' conk is defective_____
23. In ABCB loco, _____ coil is used for closing the DJ
24. While working with 'A' ending trouble loco, ____ relay should not be wedged
25. In WAG7 loco, VEULs energisation and time lag of last CP is maintained by _____
26. Improper working of ARNO will be known by _____ tripping failure
27. If C105 not closed, try by changing ____ switch to '3' position
28. To avoid wheel skidding, ____ to be pressed, while applying A9

29. To create, maintain & destroy the vacuum in dual brake loco, _____valve is used

30. If L1 or L6 not closed, ____ traction failure will be experienced

Question Bank for Chief Loco Inspector

SC Division

Sub: Technical Descriptive

1 What are the duties of loco inspector (Ele.Traction)?
2 Draw a neat sketch of pantograph
3 Draw a neat sketch of cantilever assembly.
4 Explain the AC locomotive maintenance schedule for freight locos?
5 Explain the AC locomotive maintenance schedule for coaching locos?
6 What are current ratings in different AC locomotives of WAM4, WAG7 and WAG-5?
7 Draw the circuit diagram of DJ control circuit of static converter provided locos.
8 Draw the circuit diagram of DJ control circuit of vacuum circuit breaker provided locos.
9 Draw the circuit diagram of DJ control circuit of air blast circuit breaker provided loco.
10 Explain how the speed will increase during field weakening?
11 What the mechanism provided mechanically for raising and lowering of pantograph. Explain with diagram
12 How many types of switches provided in electric locomotives and explain each of them.
13 Explain the parts of electro magnetic contractor and their function
14 Explain the parts of electro pneumatic contractor and their function
How many types of contactors are using in electric locomotives? Explain them briefly.
15 How many types of relays are using in electric locomotives? Explain them briefly.
16 Explain the importance of each part provided in pantograph.
17 Explain about the mechanism provided pneumatically to raise and lower the pantograph with diagram
18 Write the troubleshooting for permanent and intermittent acting of QOP1?
19 Draw circuit diagram of tap changer circuit and explain how progression of GR takes place.
19 Write the troubleshooting for permanent and intermittent acting of QOP2?
20 Write the troubleshooting for permanent and intermittent acting of QOA?
21 Write the troubleshooting for **external fault** in static converter provided locos?
22 Write the troubleshooting for QLM alone dropping.
23 Write the troubleshooting for QLM dropping along with QOP1 & QRSI1.
24 Write the troubleshooting for acting of QRSI1.
25 What are the occasions for dropping relay QLA and write the troubleshooting.
26 During RB application explain how IP valve (electrical) is maintained in energized condition and how BP pressure drops if OHE fails, explain with circuit diagram.
27 During RB how the traction motors are connected to RSI block and why?
28 How will you troubleshoot if DJ trips with QOA acting and smoke from switch panel.
29 What is LTBA? How will you troubleshoot if CCBA repeatedly melting.
30 What are the protective equipment provided in RB and explain them their function?
31 What are the occasions that auto-regression of GR takes place write with trouble shooting?
32 Write troubleshooting for melting of CCA even with HOBA Off.
33 What are the reasons for wheel skidding and write preventive measures?
34 What are the items to be checked after a fire accident in locomotive?
35 Draw a pneumatic circuit of SA-9
36 Draw a pneumatic circuit of BP charging and explain how BP Pressure will be charged
37 Draw neatly the MTDJ control and explain the importance of safety relays on the circuit?
38 If MVMT1 or 2 doesn't start, what will happen in the control circuit? Explain with a

diagram.

39 During RB working how the field winding is excited. Explain with a sketch?
40 What is the significance of QVLSOL relay in MU locos? Explain with a circuit.
41 Explain the working system of SA9 in single loco and MU locos.
42 List out the preventive maintenance schedule and their periodicity.
43 Write the items which will cover in trip inspection of A.C.Loco.
44 What are all the latest technological developments available in electric locomotive? Explain with merits of such developments.
45 What is the difference between Rheostatic braking & Regenerative braking? Where regenerative braking is used. Explain with a block diagram
46 What is the difference between primary suspension & secondary suspension? Explain with illustration.
47 What is the difference between wheel slipping and wheel skidding and when they will be experienced? Why the skidded locos are not permitted on line?
48 What are the various parameters recorded during IC schedule on a WAM4 locomotive?
49 Draw the power circuit of WAG-7 and indicate ratings of various protective devices
50 Explain the procedure for checking leakage in BP circuit & FP circuit.
51 What are the items to examine during Pantograph entanglement?
52 What are reasons for MR Pressure not building?
53 Write the procedure of vacuum blockage and leakage tests.
54 How synchronization of notches will be in done MU locos? Explain with sketch.
55 Write about WAP-4 Bogie?
61 Write about WAG-7 Bogie?
62 Write about WAG-5 Simplex Bogie?
63 Why Low tension test is needed and write the procedure of conducting LT test?
64 Write the ill effects if DJ not tripped at Neutral section?
65 Write about WAG-7 Bogie?
66 What are readings to be taken incase of loco derailment?
67 Explain the working of brake system employing a) friction braking b) Electric braking
68 Write short notes on Pantograph ,Tap Changer and Silicon Rectifier
69 In MU operation how the MTDJ of rear loco getting feed from Leading loco. explain with circuit diagram
70 What are the loco defects will cause wheel skidding?
71 What is the Safety items provided at under frame of locomotives?
72 Explain the working principle of ARNO.
73 Explain the working C-2 Relay valve.
74 What is the function of RPS in Power Circuit and why Inductive shuts are provided in Electric Locomotive?
75 Name the relays & pressure switches in AFL circuit and indicate their function with diagram?
76 Explain how Power block will be taken?
77 What are equipments to be examined in under gearing of locomotive?
78 What are the items to be checked in a derailed loco?
78 What is the arbitration of providing an ALP in AC locos
79 What is LT Test and explain how it will be conducted?
80 Draw the feeding circuit diagram of traction sub station.
81 What are the silent features of thread breaking unit?
82 What are the items to be checked in under gearing by the crew while taking over loco from shed.
83 What are the newly provided and removed items in locos which are replaced SIV in

place of ARNO?

84 What are the lamps provided on the panel of Siemen's make SIV unit and explain them briefly?

85 Write the procedure of trouble shooting when "external fault lamp glows" on SIV unit?

86 Write the procedure of trouble shooting when "internal fault lamp glows" on SIV unit?

87 Write the procedure of trouble shooting when "OHE out of range lamp glows" on SIV unit and duties of loco pilot?

88 Write the trouble shooting procedure with neat sketch when SIV not picking up?

89 Draw the neat diagram of SIV provided DJ control circuit (ABCB)and name its parts?

90 Draw the neat diagram of SIV provided DJ control circuit (VCB)and name its parts?

91 Write all the tripping failures in a tabular column with trouble, abnormal sign and probable causes for SIV provided ABCB provided conventional loco?

92 Write all the tripping failures in a tabular column with trouble, abnormal sign and probable causes for SIV provided VCB provided conventional loco?

93 What are the main advantages of SIV comparing with ARNO?

94 Write the procedure of trouble shooting for ICDJ in MPFDCS provided conventional locos?

95 Write the procedure of trouble shooting for TLTE in MPFDCS provided conventional locos?

96 Draw the power circuit of WAG 9 loco

97 What are the different three phase auxiliary motors provided in three phase loco, write their locations, purpose and their circuit breakers?

98 Explain about batteries in three phase loco

99 Narrate about VCD.

100 What are the different brakes provided in three phase loco?

101 How to drive the loco?

102 What will happen if emergency stop button is pressed and how will you re-set it?

103 How to change the cab?

104 How to pass the neutral section?

105 If F0301P1 (Disturbance in traction converter No.2) is appeared on screen how will you trouble shoot and work further?

106

107 How load sharing is done if anyone of the auxiliary converter is isolated? 12.Explain the bogie of WAG 9

108 Explain about pantograph and it's working 14. Explain the working of parking brake

109 If both side head lights are not working from cab2 how will you trouble shoot?

110 What are the different single phase auxiliary motors provided in three phase loco, write their locations, purpose and their circuit breakers?

111 What are the items provided in machine room No.1?

112 Explain about harmonic filter

113 How to work the train in PTDC mode in knorr brake loco?

114 What are the items provided in panel 'B'

115 What are the occasions to switch OFF control electronics?

116 Explain the working of sanders in three phase loco

117 How to switch OFF control electronics?

118 How to pass the neutral section with MU?

119 How to check the loco while taking over charge at Crew changing point?

120 How to do the braking?

121 Explain about potential transformer

122 Explain the bogie of WAP 5

123 What do you mean by service penalty brakes and how will you reset it?
124 Where auxiliary manifold is located and what are the items provided in this?
125 What are the advantages of three phase loco?
126 Draw the power circuit of modified WAP 7 loco
127 If train is parted what will happen in the loco and how to work further?
128 What are the items provided in panel 'A'
129 Explain about cooling concept in three phase loco
130 What are the working items in non-working cab?
131 How to re set ASS make MCS?
132 How transformer is protected from temperature?
133 What happens if alarm chain is pulled and what will you do?
134 Explain about fire protection in the locomotive 41. How to energise the loco?
135 Explain about self hold mode
136 How to perform shunting with three phase loco? 44. Explain about memotel.
137 How loco is protected from less or no voltage?
138 If F0801P1 (Disturbance in auxiliary converter No.3) is appeared on screen how will you trouble shoot and work further?
139 How to make engine on train with three phase loco?
140 How to check the DDS?
141 If LSCE is glowing on run what you will do?
142 What is the maximum braking and tractive effort values of various three phase locos?
143 Explain the bogie of WAP 7
144 How to check the loco brake power?
145 What are the items provided in machine room No.2?
146 Explain the working of direct brake
147 If F0701P1 (Disturbance in auxiliary converter No.2) is appeared on screen how will you trouble shoot and work further?
148 If throttle is not working how to work the train?
149 How to re-set MG make MCS?
150 Where air brake manifold is located and what are the items provided in this?
151 How to work as banker?
152 What are the items provided in panel 'C' ,
153 If both side head lights are not working from cab 1 how will you trouble shoot?
154 Explain the bogie of WAP 5
155 How proportional brakes will work in three phase loco?
156 If F0601P1 (Disturbance in auxiliary converter No.1) is appeared on screen how will you trouble shoot and work further?
157 Explain about constant speed control feature in the loco
158 Draw the power circuit of WAP 5 loco
159 What are the sub systems are provided in the loco?
160 What are the differences between priority 1 and priority 2 messages?
161 If F0201P1 (Disturbance in traction converter No.1 is appeared on screen how will you trouble shoot and work further?
166 What is trailing mode and how to work in this mode?
167 What are the items provided in panel 'D'
168 How to move the loco as dead?
169 What are the items in pneumatic panel?
170 Explain about mode switch of knorr brake loco
171 What are the oil points available for three phase loco?

Question Bank for Chief Loco Inspector

SC Division

Sub: Technical
Objective

1. Setting of QLM relay in WAG7 loco is…… amps against a power circuit current of …
2. CT ratio of RSILM in WAG5 loco is….
3. One end of QOA relay is connected to…… and the other end to….
4. Power rating of WAG7 main transformer is ….. and for WAG5 is …..
5. DJ will close, when QPDJ pressure is at ….. Kg/cm2 and will trip when it comes to …. Kg. /cm2.
6. Which relay ensures that DJ is closed only on no load?
7. The wheel diameter on new …. Mm and permitted up to …… mm
8. Permissible root wear is ….. mm and the flange wear is ….. mm.
9. Setting of QD relay in WAG7 loco is … A
10. Notch by notch progression is ensured by …. Relay
11. SMGR control circuit is protected from earth fault by ….. control fuse and the fuse rating is …..
12. ……. Schedule is carried out on electric locomotive at the nominated workshops.
13. Type of motor used in WAG9 locos for traction purpose……
14. Rating of each battery in locomotive is … and the total voltage is …. V
15. LSDJ flickering is the symptom of ……
16. Q-30 relay is termed as…. and it will cause tripping of DJ through ……
17. Continuous current rating of TAO659 TM is ……amps and 10 min. rating is ……
18. Continuous current rating of Hitachi TM is ……amps and 10 min. rating is ……
19. Conjunction brakes on locos gets applied through …… valve
20. Brake application through A-9, BC pressure goes up to ……kg/cm2 in ……seconds.
21. Permissible piston stroke on BC cylinders during brake application is …….
22. Type of cut out cock used in bogie brake isolation is ……
23. Q20 is termed as…….relay and its setting is ……V
24. Auto regression will take place when DJ is tripped on notches, through ……relay
25. QCVAR connected across…… & …… terminals.
26. Relay QCVAR picks up at ……Volts to open ……contractor
27. Setting of P2 pressure switch in AFL circuit is ……& …… kg/cm2
28. During progression & regression …… will close on all ½ notches and …… will come into circuit.
29. Sequential closing of CGRs achieved through ……arrangement.
30. Tap changer taps are making & braking on no load is ensured by ……
31. Transition time of GR contracts from one tap to another tap is ……
32. If GR stuck up in ½ notch due to any reason for more than …… sec. then ……
33. Expand the abbreviation ESMON…..……
34. Medha make ESMON module will have a short term memory of ……hours and a long term memory of ……
35. AAL make ESMON module is termed as …… and its short term memory is

……

36. SEC is the emergency consumed by a locomotive for ……GT.KM
37. Use of Rheostatic braking will minimize …… on brake gear.
38. Change over of working etween braking traction takes place by ……
39. On load operation of reversors & CTFs are avoided by …… relay
40. Relay QE monitors the ……current and QF relay monitors the ……current.
41. If CCLS fused…… lamps will not glow and …… valves will not energise.
42. To avoid wheel slipping at the time of starting on heavy loaded trains ……switch is put on to energise ……relay
43. Locos fitted with static inverters if external fault indication display on SI unit, then check for ……equipments other than auxiliaries.
44. Time to build up ……kg/cm2 by MCP in normal working condition is ……minutes.
45. Time delay in closing contractors C107, C105 & C106 is ……sec.
46. C108 Contactor controls --------- Motor
47. Buffer height limits---------
48. Rail guard height is -----
49. In twin Beam headlight the rating of bulb is _____
50. In a twin beam Head light, what is the voltage of bulb in “dimmer” Operation.
51. What is the advantage of twin beam headlight system
52. What is class of Insulation specified for 180 degree temperature:
53. At the time of wheel slip, the object of sanders is to
54. Specific gravity of electrolyte is measured using:
55. DC series motor is used for traction purpose because
56. Horse power of a TAO 659 traction motor is
57. Battery negative is connected to loco body through
58. The speed control method used in AC locomotive
59. KVA rating of TFP used in WAG7 & WAP4 locos is
60. Hitachi Traction motor is a _ pole ____ motor
61. What type of bearing is used in WAG7 loco axle box?
62. The time interval between IA and IB schedule of WAG5 loco is_____days
63. The lubricant used in suspension bearing of a TAO motor is…….
64. Gear ratio of WAG7 loco is
65. Max.starting torque offered by WAG7 loco is
66. Purpose of inter pole in the traction motor.

67. The rating of ATFEX is _____ KVA.
68. RHOBA resistance is _____ ohms
69. In WAG5A loco the FP leak hole drop is allowed up to _____
70. In WAG5A loco the standard setting of QPDJ cut in/cut out _____
71. In WAP4 loco the standard setting of RGEB 2 cut in/cut out _____
72. In WAP4 loco the Duplex check valve is set at _____
73. Pinion and bull gear ratio of a WAG 7 loco is _____
74. Capacity of battery provided in electric loco is_____amph
75. Bibby Coupling is provided to couple _____
76. The class of insulation used in Hitachi Traction Motor is _____
77. The setting value of QD relays ____ DC amps pick up ___ DC amps drop out
78. The ratio of RSILM in WAG7 is _____
79. The ratio of TFILM in WAG7 is _____
80. What is the Gear ratio of a wheel set in WAP4 _____
81. What is the diameter of an Axle _____?
82. What is the height of the buffer _____?
83. What is the height of the rail guard_____?
84. Periodicity of AOH schedule for freight locos_____
85. Periodicity of IOH schedule for freight locos_____
86. Periodicity of POH schedule for freight locos_____
87. Periodicity of IC schedule for freight locos__
88. Periodicity of IB schedule for freight locos_____
89. Periodicity of POH schedule for coaching locos__
90. Periodicity of IOH schedule for coaching locos_____
91. Periodicity of AOH schedule for coaching locos_____
92. Periodicity of IC schedule for coaching locos_____
93. Periodicity of IB schedule for coaching locos_____
94. Transformer breather used for_____
95. The HP of MVSL is _____
96. The maximum rpm of a Hitachi Traction Motor is
97. The position of CGR contactors in between notches are ------,-------- and --------- respectively
98. Main transformer is having _____number of taps totally.
99. Flickering of LSDJ is called _____ tripping failure.
100. In WAG-5, If MVSL-1 is burnt work the train by _____
101. If C-118 is closing ,but DJ not closing then keep____&_____and try
102. Poly glass material projecting from vent mesh of TM is called as _____
103. Time required to travel for GR from 0-32 notches is _____
104. When there is Operation 'O' trouble, clear the section by placing _____

105. MPS can be operated from _____ notch for field weakening
106. Q46 energises when _____
107. Feed pipe is painted with _____ colour.
108. Purpose of RPS is _____
109. Whenever QCVAR becomes defective, starting phase to ARNO to be cut off by de-energizing _____
110. If C-105 is not closed, _____ failure will be experienced
111. After closing DJ, if C-118 coil not de-energised, it leads to _____
112. Permanent de-energisation of Q52 leads to _____ traction failure
113. When DJ is opened on notches auto regression takes place by _____ relay.
114. If MVMT-1 is defective, _____tripping failure will be experienced
115. If MVSI-1 is defective, _____ tripping failure will be experienced
116. Maximum RB Current rating for WAG-5 is _____ Amps
117. In WAG-5 loco, maximum MR pressure is _____ Kg/cm^2
118. Melting of CCPT causes _____ tripping failure.
119. When ZPV on '3', ____ contactor will isolate & ____ PV will isolate
120. Auto-regression on 1^{st} notch with LSP due to _____
121. Earth fault in SL 1 causes _____
122. Direct auxiliaries are provided to protect ARNO from_____
123. OHE of AC Traction is fed by _____
124. Volt meter is connected in _____ to the circuit
125. Autotransformer is used to get _____ voltages in our locomotive.
126. Resistance is _____ proportional to cross sectional area of the conductor.
127. In electric traction loco, Traction motors are _____ type
128. Rate of flow of current per sec. in the circuit is called _____
129. Electrolyte used in cells of electric loco battery is _____
130. Intentional bonding is done through _____
131. In air flow indicator white needle called as _____ and red needle called as _____
132. DC Motor working principle _____
133. When Q44 is wedged, _____ to be avoided
134. Earth fault in MVSL-1 causes tripping of DJ through_____ relay.
135. In modified panto circuit, when DJ locked mechanically, then Pantograph ___
136. Pantograph is mounted on _____ number of base insulators
137. Single bottle vertical type VCB control circuit will have _____ number of branches
138. In VCB loco, if DJ trips just before releasing BLRDJ, conclude ____I/L is defective
139. For Twin pipe air brake system _____ & _____ air hoses to be coupled.
140. TFWA feeds _____ Volts of supply to ARNO
141. ET-1 and ET-2 are to protect against _____
142. QRSI will not allow more than _____ Amps. in WAG-5 loco.

143. When Q20 is energised, _____ lamp will glow.
144. In modified WAG-5 loco, U-1 is connected to _____ Traction Motor
145. QOP is provided in _____ circuit
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
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 nergises 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. Purpose of staggering arrangement of OHE contact wire is _____
156. In WAG7 loco, location of C2B relay valve is _____
157. If _____relay de-energies, loco brakes will not release by pressing PVEF.
158. Earth fault in Q119 coil causes _____
159. In WAP4 loco, to isolate TM 4 ____ switch to be kept on ____ position
160. In electrified section, when ATD is provided only at one end, it is known as ____type of OHE
161. In DC-DC converter, twin beam headlight provided with ____ lamps/ bulbs
162. Current rating when MVRH is isolated is _____ Amps in WAG 5 locomotive.
163. Defective QCVAR causes _____ tripping failure.
164. In Static converter loco,3∅ E.M. contactor for MVRF is _____
165. If any un-loader valve is stuck up and discharging air, trouble can over come by _____
166. In WAG5, if duplex check valve is defective _____ will not work
167. If rear cab BL is not locked properly, it leads to _____
168. If QPH is defective, work the train by keeping _____ on _____position and duly follow necessary precautions
169. Earth fault in CHBA causes _____ relay to energise
170. In microprocessor loco, fault, if any, will be indicated through _____
171. During RB, earth fault in RF resistances cause ___ relay to energise in WAG 7 loco.
172. When A9 is applied to emergency, the pressure admitted to loco brake cylinder is __
173. In WAG5, hand brake will apply brake blocks of ____ wheels
174. In Static converter loco, _____ should not be wedged under any circumstances
175. For quick recharging of BP pressure, _____ switch to be pressed
176. In Microprocessor loco, during ICDJ _____ fuses to be checked
177. Puncture of diode in RSI block causes _____ lamp to glow
178. Total number of roof bars including hand operated Roof Bars in WAP-4 loco is_____

179. RGR is connected between _____
180. Airflow measuring valve is connected between _____ & _____
181. In Static converter loco, in VCB type DJ control circuit, C118 I/L is replaced with _
182. 'NO TENSION' is experienced due to_____ defects on loco roof
183. If Q30 N/O I/L is defective _____ relay can be wedged to work the train further
184. If LSCHBA glows on run, _____ & ____ to be checked.
185. Q44 is called as _____ relay
186. If twin beam headlight is not working, _____ switch position to be changed
187. Notch by notch progression or regression is done by ____ relay
188. While wedging AC 3∅ contactor, ensure _____
189. Defective Q 50 causes _____ traction failure
190. If RSI –1 draws over current, DJ will trip through _____ relay
191. Setting of SS-1 is ____ kg /cm^2
192. During blockage test, vacuum should not create more than ____ cm, in train pipe
193. In WAG5, to isolate TM1, _____ bit to be wedged
194. Pilot lamps does not glow, when _____ conk disconnected
195. Operation B part - I trouble is caused due to _____ even though HVSL 1&2 and HPH kept on 3 position
196. Defective Q30 causes _____
197. When CCA melting repeatedly even with HOBA in OFF position _____
198. While operating MP to Traction side, from Braking side _____
199. C-118 closing in LT, but not closing in HT. Reason may be _____
200. Earth fault in QCVAR causes_____
201. If L3 opens on run, _____ will happen
202. In WAM 4P-6P loco, if HPH kept on '0', _____ Current rating to be followed
203. On dual brake loco, if CCLS is melting even HOBA in OFF, to avoid TLTE, ___
204. Traction motor starting current for WAG-7 Loco is _____
205. Precautions while working with Manual operation of GR _____
206. If LPAR glowing on run along with buzzer check _____
207. Short circuit in TFWR causes _____
208. When Head light is failed, speed of the train should not be more than _____Kmph
209. Earth fault in MVSI-1 causes _____
210. When MP moved from Braking to Traction, if TLTE experienced , check ___
211. Reason for Operation 'A' ending part – II is due to ____
212. While closing DJ, earth fault in TFWA causes _____
213. QD-2 is connected between ____ & ____ Traction Motors in WAP-4 loco
214. QD actions are _____
215. MR-3 pressure is admitted into brake pipe through ____ valve in WAG-5
216. Earth fault in C-118 coil causes_____

217. On VCB loco, defective C-118 N/O I/L causes _____
218. While working MU, defect in the rear loco will be noticed by _____
219. During MU operation, if CCPT melting repeatedly in leading Loco, _____
220. Pantograph is not raising due to _____
221. Location of Pantograph lowering spring is _____
222. When MPJ 2 is kept in forward direction, _____
223. If pantograph raising spring is broken and fallen on loco roof, it causes _____
224. While passing neutral section, ensure _____
225. While working MU, if leading Loco GR is defective, it causes _____
226. Normally, starting phase to ARNO cut off automatically by _____
227. Cut in the TFWA winding causes _____
228. The electrical braking is effected by_____ contactors
229. The total No. of auxiliary motors on WAG-5 dual brake loco are _____
230. If Dropper is found hanging, the immediate duty is _____
231. RSI-2 block supplies current to _____ in WAP-4 loco
232. On opening BLVMT blowers will are not stopping due to _____
233. ICDJ trouble will be experienced due to _____ fuses melting
234. If 'C' conk is slack _____ will not work.
235. Proportional working can be isolated by closing ____ COC
236. Speed of the train while driving from rear cab by Driver is _____
237. Purpose of VA-1 release valve in WAG-5 loco is _____
238. If auto regression of GR experiences & exhausters stops working , check ____
239. Appropriate air pressure in the system is maintained by ____
240. HS-4 pressure should be always between _____
241. Earth fault in MVRF during RB causes energising of ____ in WAG 7 locomotive
242. A34 terminal cut causes _____traction failure.
243. Loco earthing switch is _____
244. Ignoring of banding failure takes place in Traction Motor may leads to _____
245. Slipped pinion causes ____
246. When locked axle takes place in mid section _____
247. In WAG 5, if HMCS-1 is placed on '3' position, _____
248. Purpose of A-1 Differential valve is_____
249. On run heavy flashes are noticed from Panto_____
250. Breaking of roof insulator or base insulator leads to _____
251. When there is Earth fault in VEPT-1 coil _____
252. Procedure of isolating RSI 2 in WAG5 loco is _____
253. In WAG 7 loco, QD 2 is connected between ___ & ___ Traction motors
254. WAP4 Loco will have _____ type of bogie
255. In WAG 7 loco if RSI2 exceeds an over current of _____

256. If only 6 Shunting contactors are provided in WAG-5, they are meant for ____
257. LSB glows and extinguishes when MP is placed on 'P' due to _____
258. RF resistances are provided _____
259. Location of ATFEX in WAG-5 is _____
260. On releasing SA9, pressure in the brake Cylinders will escape through _
261. On notches DJ tripped. After closing DJ, if TLTE is experienced, ___
262. The purpose of QTD101 relay is _____in static converter locomotive
263. Additional fuse provided in loco is _____
264. Setting of QLM in WAG 5 loco is _____ Amps.
265. Total number of DC motors on WAG5 loco are _____
266. RSI-2 block supplies Current to _____ in WAP4 loco
267. In WAG7 loco maximum number of traction motors can be Isolated at one time is _____
268. Minimum pressure required for energising of any electro valve in loco is __ kg/cm²
269. Working pressure of SMGR ____ kg/cm²
270. GR Full notch Protection relay is _____
271. MCB TFS is related for the function of _____
272. Normal Height of contact wire from Rail level is _____
273. Minimum amount of Vacuum to be created with 8 mm leak hole test plate
    With in 30 seconds is ____ Cm.
274. Message conveyed through Emergency Telephone is to _____
275. On run if CCBA fuse melts, ____
276. Length of Section Insulator type Neutral Section is _____ Meters
277. When GR on 21st notch, if MP is brought to '0' _____
278. QCVAR is provided for the protection of _____
279. In dead loco, to avoid wheel skidding _____ to be isolated
280. Position of A8 COC, while working with cab2 leading is ____
281. If time taken to pass One km is 80 seconds, the speed of the train is____ Kmph.
282. Standard span length between two Traction masts on straight line _____ Meters
283. QLM is available in _____ circuit
284. To over come A-ending Part-II, _____ wires to be looped and follow necessary precautions.
285. DCP type fire extinguisher can used for _____
286. If C-118 is closing in LT but not closing in HT, _____ wires to be looped and follow the precautions as like Q44 wedging.
287. Fire extinguisher used on Electric traction loco is _____
288. Earth faults in SL-2 causes tripping of DJ through _____
289. Lower pantograph caution order will be given during_____
290. When 'B' conk is defective_____
291. In ABCB loco, _____ coil is used for closing the DJ
292. While working with 'A' ending trouble loco, ____ relay should not be wedged

293. WAP-4 loco will have _____ number of Main reservoirs
294. R-1 COC location in WAP-4 loco is _____
295. To isolate TM No. 6, _____negative bit to be packed in WAP 4 loco (with out RB)
296. Total number of brake cylinders provided in WAP-4 loco is ____
297. Type of bogie provided in WAM-4 loco is _____
298. Horsepower of WAP-4 loco is _____
299. In WAG7 loco, VEULs energisation and time lag of last CP is maintained by _____
300. Improper working of ARNO will be known by _____ tripping failure
301. If C105 not closed, try by changing ____ switch to '3' position
302. To avoid wheel skidding, ____ to be pressed, while applying A9
303. To create, maintain & destroy the vacuum in dual brake loco, _____valve is used
304. If L1 or L6 not closed, ____ traction failure will be experienced
305. If train is expected to stop for ___ minutes or more, blowers to be switched OFF, to conserve energy
306. Earth fault in auxiliary control circuits causes, melting of _____ fuse
307. If Banding failure is experienced, clear the section with ____ KMPH of speed
308. Before conducting LT test, ensure _____
309. Modified locos will have ____ relay, in place of C118 chronometric I/L
310. To avoid QD action in microprocessor loco, ____ switch to be pressed
311. If SL2 had earth fault, DJ will trip through ____ relay
312. Modified Pantograph pan will have, _____ in place of wearing strips
313. If pilot lamps are not working, _____ & _____ fuses to be checked
314. If C145 coil is having earth fault _____ fuse will melt.
315. Modified RGCP setting is _____ Kg/cm^2
316. Defective Air Dryer leads to _____
317. Unless GR is in _____ notch, DJ cannot be closed
318. In WAG 5 loco, If all line contactors are not closed, check _____COC
319. If C107 contactor not closed, _____ tripping failure will be experienced
320. For wedging Q44, ____ permission is required
321. While working MU, glowing of LS group lamp in leading loco indicates ____
322. If, BLRDJ is defective, close the DJ by pressing_____
323. QD1 energises at _____ amps in modified locos.
324. If any foreign body is hanging from OHE, the immediate duty of driver is _____
325. To isolate TM4 in WAP4 loco(RB provided)_____ negative bit to be packed
326. Horse power of WAG-7 is _____ HP.
327. Earth fault in MVMT1 causes tripping of DJ through ____ relay
328. To check AFL, _____ switch to be pressed
329. While working EEC operation, ZSMS to be kept in _____ position in WAG5 loco.
330. In WAM4P loco, ____ No. of motors will start along with ARNO

331. Location of R1 COC in WAG7 loco is _____
332. WAG7 loco is having _____ type of bogie
333. If Pacco switch is in pressed condition, _____ trouble will be experienced
334. Earth fault in C107 coil causes _____ tripping failure
335. Earth fault in S41causes tripping of DJ through _____
336. In WAM4P- 6P loco, to isolate TM 4, ____ bit to be packed
337. Nomenclature of MU2B is _____
338. Location of A8 COC in WAG7 loco is _____ in modified locos.
339. In 58 BOXN+BV load, if 6 DVs are defective, the effective brake power is_____
340. Minimum Brake pipe pressure should be _____ Kg/cm ^{2} in locomotive and ____ Kg/cm^2 in brake van of a train having 58 vehicles
341. Minimum vacuum level should be ___ Cm in locomotive and ___ Cm in BV in goods train.
342. To work an air brake train with 59 vehicles, ____ No. of CPs to be kept in service
343. Minimum FP pressure should be ___ Kg/cm ^{2} in locomotive and ____ Kg/cm^2 in SLR of a 10 vehicles coaching train
344. In EP C-118 provided locos ____ relay is provided in auxiliary control circuits.
345. Q20 actions are _____
346. P1 is provided on _____ pipe line
347. If time taken 40 seconds to pass one KM, the speed is _____KMPH.
348. In MU, ___ lamp glows in healthy loco and ____ lamp glows in defective loco
349. Starting Current ratings for 10 minutes in WAP4 loco is ____
350. On modified locos, TM meters connections in cab1are____ & in cab2are____
351. Earth fault in ARNO capacitor bank causes tripping of DJ through _____ relay.
352. In modified locos, ARNO is replaced with_____
353. In WAP4 loco, to isolate TM No.5 on negative side, _____bit to be wedged.
354. In MU, ___valve makes the rear loco also to create vacuum during recreation
355. By pressing SW1 or SW2, _____ relay will energise
356. If negative bonding is existing, LECC glows___ with HOBA in "OFF"
357. When Driver is driving from rear cab & Asst.Driver is leading cab, the speed is__
358. On modified WAP4 loco, RF resistances are cooled by ____
359. When ZPV on '4' position _____ Contactor will open
360. The length of PTFE neutral section is _____ Meters
361. Though MVRH is working, if QVRH is not energised, it leads to ____
362. Earth fault in SJ4 causes tripping of DJ through ___ relay
363. If CTF3 TR I/L is defective on line contactors control circuit causes _____ traction failure
364. Pressure setting of CP individual SS is _____ kg/cm^2
365. GD80E filter is connected in between ____ and ____

366. Signaling relay for LSGR is _____
367. Capacity of CCA fuse is _____ Amps.
368. Tap changer control circuit is controlled by _____fuse
369. The Condition of Q46 relay during Quick regression of GR is ___
370. If earth fault happened in relay Q119, _____fuse melts.
371. Output supply of Static converter is _____
372. When BP drops and A9 is in release ____ __starts functioning.
373. While working MU, BLSN to switched off at _____ board of neutral section
374. WAG7 TM current rating for 60 min. is _____amps.
375. Static converter input supply is _____ volt & out put supply is _____Volts
376. a7 & a8 Bushings are belongs to _____ Secondary Winding
377. Nomenclature of C2A is _____
378. In MU, ____valve makes the rear Loco brakes to operate along with leading loco brakes.
379. If CCBA is melting when HOBA in OFF, check _____
380. In dead loco, J1&J2 handles to be kept in _____ position
381. During RB, if BC pressure is above 1.0 kg/cm^2, _____ relay will de-energise
382. In WAP4, center pivot will carry ____% and Bolster will carry ____% of load.
383. Purpose of Anti Creep wire is _____
384. If QVMT2 is not energised, _____ tripping failure will be experienced
385. Earth fault in L2 leads to tripping of DJ through ____ relay
386. Capacity of RGR is _____ Ω
387. Input supply of Inverter of SI unit is _____
388. Purpose of pantograph pan tilting modification is _____
389. When accident is occurred, operate _____ switch of speedometer, after stopping.
390. If QE is energised, ____ will happen
391. Fault memory capacity of Medha make Microprocessor is _____
392. In Static converter loco, at neutral section, ___switch only to be open in modified locos.
393. In WAG7, load bearers nearer & farer to center pivot will carry __ % &__% of load
394. Earth fault in C145 coil causes _____ fuse to melt in Static converter Loco
395. In Microprocessor loco, if main unit is not working keep HBA in '0' for ____
396. When CCSPM blown out, ____ will not work
397. Purpose of Additional CCBA is _____

Objective questions on three Ø loco

1. Three phase loco works on the principle of …… **( )**

a. VVVF **b.** VFVF

c. VVVV **d.** None of the above

2. WAG 9 loco is fitted with …… type of bogie. **( )**

a. Bo-Bo flexi coil **b.** Co-Co Tri mount

c. Co-Co flexi coil **d.** Co-Co tetra mount high adhesion

3. Three phase loco is provided with …… number of roof bars. **( )**

a. 2 **b.** 3

c. 4 **d.** 3+3

4. 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

5. To isolate panto No. 1 keep panto selector switch in …… position. **( )**

a. Auto **b.** I

c. II **d.** I & II

6. To put on flasher light …… to be operated. **( )**

a. AFL **b.** BPFL

c. ZFL **d.** Auto brake

7. SS 03 belongs to …… sub system. **( )**

a. Traction bogie 1 **b.** Traction bogie 2

c. Main power **d.** Harmonic filter

8. Three phase scavenging blower filters dust from …… **( )**

a. Oil cooling blower **b.** Bogie blower

c. Machine room blower **d.** Oil cooling blower & Bogie blower

9. Parking brake facility is available to …… wheels in WAG 9 loco. **( )**

a. 1, 4, 5 & 8 **b.** 2, 6, 7 & 11

c. 2 & 11 **d.** 1, 6, 7 & 12

10. Maximum braking effort of WAG 9 is …… **( )**

a. 160 KN **b.** 182 KN

c. 260 KN **d.** 258 KN

11. SS 01 belongs to …… sub system. **( )**

a. Traction bogie 1 **b.** Traction bogie 2

c. Main power **d.** Harmonic filter

12. Loco grounding key is …… **( )**

a. Solenoid valve No. 30 **b.** IG 68

c. IG 38 **d.** E 70

13. For charging of BP pressure …… COC to be kept open. **( )**

a. A 8 COC **b.** 70 COC

c. 74 COC **d.** 47 COC

14. 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

15. In WAG 9, maximum brake cylinder pressure with direct brake is …… **( )**

a. 1.8 kg/cm^2 **b.** 2.5 kg/cm^2

c. 5 kg/cm^2 **d.** 3.5 kg/cm^2

16. SS 02 belongs to …… sub system. **( )**

a. Traction bogie 1 **b.** Traction bogie 2

c. Main power **d.** Harmonic filter

17. Location of PBBUS in knorr brake loco is …… **( )**

a. Pneumatic panel **b.** Auxiliary manifold

c. Air brake manifold **d.** Below direct brake handle

18. Three phase loco is equipped with …… No. of three Ø auxiliary motors. **( )**

a. 16 **b.** 22

c. 12 **d.** 13

19. In case of emergency, Asst. loco pilot can stop the train by operating …… **( )**

a. Emergency stop switch **b.** Emergency brake valve

c. BPVG **d.** a or b of above

20. 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

21. The position of mode switch in leading cab of knorr brake loco is …… **( )**

a. HLPR **b.** Lead

c. Trail **d.** Test

22. In knorr brake loco pneumatic panel have …… number of portions. **( )**

a. 1 **b.** 2

c. 3 **d.** 4

23. 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

24. Normal position of 152 is …… **( )**

a. '0' **b.** '1'

c. 'Norm' **d.** None of the above

25. Positions of 154 Switch are …… **( )**

a. I, II **b.** Norm, I, II and I & II

c. Norm **d.** 0 & 1

26. SS 04 belongs to …… sub system. **( )**

a. Traction bogie 1 **b.** Traction bogie 2

c. Main power **d.** Harmonic filter

27. In WAG 9, earth return bushes are connected to …… axle boxes. **( )**

a. 1, 4, 5 & 8 **b.** 2, 6, 7 & 11

c. 2 & 11 **d.** 1, 6, 7 & 12

28. WAG 9 have …… number of dampers in primary suspension. **( )**

a. 32 **b.** 20

c. 64 **d.** 40

29. SS 08 belongs to …… sub system. **( )**

a. Auxiliary converter No. 1 **b.** Auxiliary converter No. 2

c. Auxiliary converter No. 3 **d.** Battery

30. Auto brake valve can be locked or unlocked in ……. position of the handle in knorr brake loco. **( )**

a. Emergency **b.** Neutral

c. Full service **d.** Minimum reduction

31. WAP 5 have …… number of dampers in primary suspension. **( )**

a. 8 **b.** 16

c. 4 **d.** 32

32. Totally, three phase loco have …… number of additional COCs. ( )

a. 4 **b.** 8

c. 16 **d.** 2

33. 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

34. In WAG 9/WAP 7, location of air dryer is …… ( )

a. Behind MCP 1 in left side **b.** Between two trucks

c. Behind cattle guard 1 in left side **d.** Behind cattle guard 1 in right side

35. SS 05 belongs to …… sub system. ( )

a. Harmonic filter **b.** Hotel load

c. Battery **d.** Batteries

36. When parking brakes are applied BP pressure drops up to …… kg/cm^2 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/cm^2

37. In MU operation position, Constant Speed Control in slave loco is …… ( )

a. In service **b.** Partially in service

c. Will not be in service **d.** None of the above

38. WAG 9 is provided with ……. No. of direct brake cylinders and …..…. No. of parking brake cylinders. ( )

a. 12 & 4 **b.** 12 & 12

c. 4 & 12 **d.** 12 & 6

39. Auto brake valve have …… number of positions in knorr brake loco. ( )

a. 5 **b.** 6

c. 2 **d.** 4

40. Maximum tractive effort of WAP 5 is …… KN. ( )

a. 258 KN **b.** 322.6 KN

c. 458 KN **d.** 160 KN

41. 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

42. Maximum brake cylinder pressure with direct brake in WAP 5 is …….. **( )**

a. 1.8 Kg/cm^2 **b.** 3.5 Kg/cm^2

c. 5 Kg/cm^2 **d.** 2.5 Kg/cm^2

43. WAG 9/ WAP 7 have …….. number of brake blocks. **( )**

a. 12 **b.** 24

c. 48 **d.** 64

44. Procedure of grounding three Ø loco is …….. **( )**

a. Stop the train, trip VCB, lower panto and switch OFF CE **b.** Rotate IG-38 in anti clockwise direction, extract key.

c. Insert and operate it in HOM box, and turn HOM handle by 180^0. **d.** All the above

45. When three phase loco is attached as dead and if parking brakes are released, parking brake pressure gauge reads …… kg/cm^2. **( )**

a. 0 Kg/cm^2 **b.** 4 Kg/cm^2

c. 5 Kg/cm^2 **d.** 6 Kg/cm^2

46. 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 2 fault

47. Position of CE during cab changing is ……. **( )**

a. OFF **b.** ON

c. Self hold mode **d.** None of the above

48. Procedure of re-setting of MG make MCB is …… **( )**

a. Switch OFF CE **b.** Put OFF (Down) and ON (Up) the MCB

c. Switch ON CE **d.** All the above

49. To isolate Auxiliary converter No. 3 open MCB No. …… located in SB 2. **( )**

a. 127.22/1 **b.** 127.22/2

c. 127.22/3 **d.** 127.3

50. Location of BPFL is …… **( )**

a. FLCU **b.** Panel A

c. Panel B **d.** Panel C

51. During self hold mode, CE will remain in ON for …….. minutes. **( )**

a. 15 **b.** 10

c. 20 **d.** Will not switch OFF

52. To move 3 Ø loco as live or dead ensure …… brakes are released. **( )**

a. Parking brakes **b.** Direct brakes

c. Parking and Direct brakes **d.** None of the above

53. If ATDC (Throttle) is failed, keep …… switch in …… position. **( )**

a. 154, 0 **b.** 152, 1

c. 152, 0 **d.** 160, 1

54. When parking brakes are applied parking brake pressure gauge reads ……. **( )**

a. 0 Kg/cm^2 **b.** 4 Kg/cm^2

c. 3.5 Kg/cm^2 **d.** 6 Kg/cm^2

55. When knorr brake loco is attached as banker keep mode switch in…....position. **( )**

a. HLPR **b.** Lead

c. Trail **d.** Test

56. SS 15 belongs to …… sub system. **( )**

a. Cab 2 **b.** Fire detection

c. Memotel (Speedometer) **d.** Processor FLG1

57. Location of Emergency stop push button in three Ø loco is …… **( )**

a. Panel A **b.** Panel B

c. Panel C **d.** Panel D

58. Minimum voltage relay in three Ø loco is …….. **( )**

a. 78 in SB 1 **b.** 78 in SB 2

c. 86 in SB 2 **d.** 86 in SB 1

59. WAP 7 have …… number of dampers in primary suspension. **( )**

a. 8 **b.** 12

c. 16 **d.** 20

60. WAP 5 loco is provided with …… No. of direct brake cylinders and …… No. of parking brake cylinders. **( )**

a. 8 & 4 **b.** 12 & 12

c. 4 & 8 **d.** 12 & 6

61. Horse Power of WAG 9 loco is …… **( )**

a. 5440 HP **b.** 5000 HP

c. 8000 HP **d.** 6120 HP

62. Specialty of knorr brake loco is ……. ( )

a. There are no BE in loco **b.** Though BE failed can work the train

c. BE will not fail **d.** None of the above

63. MPS of WAP 7 loco is …… ( )

a. 100 Kmph. **b.** 120 Kmph.

c. 130 Kmph. **d.** 160 Kmph.

64. While working with MU, slave loco VCB will close with delay of …… ( )

a. 5 Seconds **b.** 1 Second

c. 1 Minute **d.** 0.5 Seconds

65. WAG 9/WAP 7 have …….. number of dampers. ( )

a. 16 Dampers. **b.** 20 Dampers.

c. 40 Dampers. **d.** 10 Dampers.

66. Three phase loco is provided with …… number of auxiliary converter(s). ( )

a. 1 **b.** 2

c. 3 **d.** 4

67. When harmonic filter is isolated, speed of the train is restricted to ……... ( )

a. 60 Kmph. **b.** 40 Kmph.

c. 25 Kmph. **d.** No such restriction

68. WAP 5 loco is provided with …… type of bogie. ( )

a. Bo-Bo flexi coil **b.** Co-Co Tri mount

c. Co-Co flexi coil **d.** Co-Co tetra mount high adhesion

69. To raise the pantograph, ensure …… node information on screen. ( )

a. FLG 504 **b.** FLG 550

c. FLG 570 **d.** FLG 590

70. 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

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

a. 2 **b.** 4

c. 12 **d.** 8

72. In three phase loco head light works with …… volts of supply. ( )

a. 110 Volts DC **b.** 110 Volts AC

c. 24 Volts DC **d.** 12 Volts DC

73. Potential transformer supply is given to ……..…….. ( )

a. MCE **b.** U1 & U2 meters

c. MVR 86 **d.** Above all

74. Location of Bogie blower No. 2 is …… ( )

a. Machine room No. 1 **b.** Machine room No. 2

c. Under machine room No. 1 **d.** Under machine room No. 2

75. Maximum voltage of traction motor of three Ø loco is …… ( )

a. 2180 Volts. **b.** 750 Volts.

c. 4360 Volts. **d.** 178 Volts.

76. If RS pressure is below 5.6 Kg/cm^2 and MCPs are not working, MCPA starts automatically provided BL key is in ……. Position. ( )

a. C **b.** D

c. C or D **d.** None of the above

77. From Cab 1, if both head lights are not working check …… ( )

a. MCB No. 310.1/1 in SB 1. **b.** MCB No. 310.1/1 in SB 2.

c. MCB No. 310.1/2 in SB 1. **d.** MCB No. 112.1 in SB 2.

78. Before operating throttle, ensure …… node information on screen. ( )

a. FLG 504 **b.** FLG 550

c. FLG 570 **d.** FLG 590

79. In proportional working, maximum BC pressure in WAP 5 loco is …… ( )

a. 2.5 Kg/cm^2 **b.** 3.5 Kg/cm^2

c. 1.8 Kg/cm^2 **d.** 5 Kg/cm^2

80. When panto is raised and DJ is not closed CE will switch OFF after …… ( )

a. 10 Minutes **b.** 15 Minutes

c. Immediately **d.** CE will not switch OFF

81. WAG 9 has …….. number of helical springs in primary suspension. ( )

a. 8 **b.** 16

c. 4 **d.** 32

82. Loco grounding switch is …… ( )

a. Blue KABA key (IG 38) **b.** BL key

c. HOM **d.** HPT

83. 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

84. Oil cooling blower cools …… **( )**

a. TFP oil **b.** SR oil

c. TFP oil & SR oil **d.** Traction motors

85. Traction motors works with the principle of …… **( )**

a. VVVF **b.** VFVF

c. VVVV **d.** None of the above

86. Procedure of isolating truck No. 1 is …….. **( )**

a. Keep 154 in I position **b.** Keep 154 in II position

c. Keep 154 in Auto position **d.** Keep 154 in I & II position

87. If battery voltage drops below …… volts for 30 seconds, P2 message appears. **( )**

a. 92 Volts **b.** 82 Volts

c. 90 Volts **d.** 85 Volts

88. For application of parking brakes speed should be ……..…. **( )**

a. Below 5 Kmph **b.** Above 5 Kmph

c. Below 1.5 Kmph **d.** Zero Kmph

89. With application of direct brakes Traction is not possible beyond …… speed. **( )**

a. 5 Kmph **b.** 10 Kmph

c. 15 Kmph **d.** Zero Kmph

90. SS 16 belongs to …… sub system. **( )**

a. Cab 2 **b.** Fire detection

c. Memotel (Speedometer) **d.** Processor FLG1

91. In proportional working, maximum brake cylinder pressure in WAG 9 is …… **( )**

a. 1.8 kg/cm^2 **b.** 2.5 kg/cm^2

c. 3.5 kg/cm^2 **d.** 5 kg/cm^2

92. Normal position of panto selector switch is …… **( )**

a. Norm **b.** I

c. II **d.** Auto

93. Gear ratio of WAP 5 loco is …… ( )

a. 15:77 **b.** 20:72

c. 17:35:67 **d.** 21:58

94. Location of FDU is …… ( )

a. SB 1 **b.** SB 2

c. HB 2 **d.** Panel 'C'

95. In WAP 5, location of air dryer is …… ( )

a. Behind MCP 2 **b.** Behind Cattle guard 1 in left side

c. Behind MCP 1 **d.** Behind Cattle guard 1 in right side

96. Procedure of re-setting of ABB make MCB is …… ( )

a. Switch OFF CE **b.** Rotate the screw to vertical position

c. Lift the handle & Switch ON CE **d.** All the above

97. Between two operations of PSA …… time of pause is required. ( )

a. 10 to 12 Minutes **b.** 10 to 12 Seconds

c. 12 to 15 Seconds **d.** 30 Seconds

98. Parking brake facility is available to …… wheels in WAP 5 loco. ( )

a. 2, 6, 7 & 11 **b.** 2 & 11

c. 1, 4, 5 & 8 **d.** 6 & 7

99. Battery voltage in three phase loco should be …… ( )

a. Above 85 Volts **b.** Above 90 Volts

c. Above 92 Volts **d.** Above 110 Volts

100. Three phase loco is equipped with …… number of battery boxes. ( )

a. 2 **b.** 4

c. 6 **d.** 32

101. WAP 5 have …… number of helical springs in primary suspension. ( )

a. 8 **b.** 16

c. 4 **d.** 20

102. Horse power of WAP 7 is …… ( )

a. 5440 HP **b.** 5000 HP

c. 8000 HP **d.** 6120 HP

103. Three Ø loco is equipped with …….. number of single Ø auxiliary motors. ( )

a. 12 **b.** 4

c. 8 **d.** 13

104. While working with MU, if un coupling takes place between the locos, the position of ( )

slave loco is ……

a. Systematic shut down **b.** Only VCB trips

c. VCB trips and panto lowers **d.** No specific action

105. WAP 5 has …….. No. of brake pads. **( )**

a. 8 **b.** 16

c. 32 **d.** 64

106. In WAP 5 loco, each wheel is provided with …… number of brake hanger(s). **( )**

a. 1 **b.** 2

c. 4 **d.** 8

107. To operate reverser ensure …… node information on screen **( )**

a. FLG 504 **b.** FLG 550

c. FLG 570 **d.** FLG 590

108. For CHBA, MCB No. …… is input and located in …… **( )**

a. 100 & 110 **b.** 110 & 100

c. 112.1 & 110 **d.** 112 & 112.1

109. If speed is more than …… % than MPS, audio visual indications will appear. **( )**

a. 0.5% **b.** 5%

c. 15% **d.** 50%

110. WAG 9/WAP 7 loco is provided with …… type of direct brakes. **( )**

a. Clasp **b.** Non-Clasp

c. Disc **d.** None of the above

111. While working with MU, if FDU came into service in slave loco, …….. happens in master loco. **( )**

a. VCB trips **b.** BZ-V-O-F sounds with P1 message

c. Only P1 message appears **d.** None of the above

112. Over current relay in three Ø loco is …… **( )**

a. 86 **b.** 70

c. 78 **d.** 74

113. If TFP oil temperature increased to ….^{0}C for 10 seconds, loco will shut down. **( )**

a. 84^{0}C **b.** 70^{0}C

c. 80^{0}C **d.** 47^{0}C

114. OHE working range of three phase loco is …….. KV. **( )**

a. 17.5 KV & 30 KV **b.** 17 KV & 30 KV

c. 17.5 KV & 30.5 KV **d.** 17 KV & 30.5 KV

115. To switch OFF control electronics procedure of operating BL key is…….. **( )**

a. D to OFF wait for 4 seconds **b.** OFF to C wait for 4 seconds

c. C to OFF **d.** Above all

116. SS 18 belongs to …… sub system. **( )**

a. Fire detection **b.** Memotel

c. Processor FLG 1 **d.** Processor FLG 2

117. Location of CHBA is …… **( )**

a. Machine room No. 1 **b.** Machine room No. 2

c. BUR 1 **d.** BUR 2

118. For cooling mode procedure of operating BL key is …….. **( )**

a. D to OFF wait for 4 seconds **b.** OFF to C wait for 4 seconds

c. C to OFF then to C again **d.** Above all

119. On run, dropping of MR pressure drops below 6.4 kg/cm^2 causes …… **( )**

a. TE/BE needle comes to 'O' **b.** P1 message appears

c. Both MCPs starts **d.** All the above

120. Normal position of ZTEL is ……... **( )**

a. ON **b.** OFF

c. 'Norm' **d.** Zero

121. To close the DJ, ensure …… node information on screen. **( )**

a. FLG 504 **b.** FLG 550

c. FLG 570 **d.** FLG 590

122. When ZTEL is switched ON tractive effort is limited to …….. kn in WAG 9. **( )**

a. 0.8 to 1.5 KN **b.** 300 KN

c. 150 KN **d.** 458 KN

123. To isolate panto No. 1 keep panto selector switch in …… position. **( )**

a. Auto **b.** I

c. II **d.** I & II

124. In three Ø loco each battery box is provided with …… number of batteries. **( )**

a. 13 **b.** 26

c. 3 **d.** 39

125. MPS of WAP 5 is ……. Kmph. ( )

a. 100 **b.** 130

c. 140 **d.** 160

126. From cab 2, if both head lights are not working check MCB No. …….. ( )

a. 310.1/1 in SB 1 **b.** 310.1/1 in SB 2

c. 310.1/2 in SB 1 **d.** 310.1/2 in SB 2

127. 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

128. During WAP 7 loco brake power testing, should not to move below …….. KN. ( )

a. 100 KN **b.** 150 KN

c. 300 KN **d.** 125 KN

129. In dead loco, open ……. COC for the purpose of charging auxiliary reservoir. ( )

a. 70 COC **b.** 47 COC

c. 74 COC **d.** 136 COC

130. While working as banker, put on ……. Switch. ( )

a. ZTEL **b.** ZBAN

c. BLHO **d.** None of the above

131. 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

132. 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

133. SS 17 belongs to …… sub system. ( )

a. Fire detection **b.** Memotel

c. Processor FLG 1 **d.** Processor FLG 2

134. While moving three Ø loco as dead to avoid wheel skidding …….. ( )

a. Stop the train, trip VCB, lower panto and switch OFF CE **b.** Lock 23 plunger in applied condition and release all parking BCs

c. Ensure loco brakes are released **d.** All the above

135. To perform shunting keep ……. switch in ……. position. ( )

a. 154; 0 **b.** 154; 1

c. 160; 0 **d.** 160; 1

136. While working with WAP 7 or WAG 9 with light load, if Harmonic filter is isolated procedure to work with normal speed is …… ( )

a. Stop the train **b.** Switch OFF CE & Isolate Bogie 1

c. Switch ON CE & resume traction **d.** All the above

137. Procedure of isolating VCD is ……. ( )

a. 154 in '1' **b.** 154 in 'O'

c. 237.1 in '1' **d.** 237.1 in 'O'

138. CHBA is getting supply from …… ( )

a. Auxiliary converter No. 1 **b.** Auxiliary converter No. 2

c. Auxiliary converter No. 3 **d.** Traction converter No. 1

139. If battery voltage drops below …….. volts, loco will shut down. ( )

a. 82 Volts **b.** 87 Volts

c. 90 Volts **d.** 92 Volts

140. 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

141. In WAG 9, normal position of direct brake handle in rear cab is …… ( )

a. Apply **b.** Release

c. FS & Locked **d.** None of the above

142. Horse power of WAP 5 is …… ( )

a. 5440 HP **b.** 5000 HP

c. 8000 HP **d.** 6120 HP

143. Before nullifying CSC, observe …… meters and throttle. ( )

a. Ammeters **b.** Voltmeters

c. Screen **d.** Bogie 1 & Bogie 2

144. 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

145. 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

146. In WAG 9, when parking brakes are released PB gauge reads …… **( )**

a. 5 Kg/cm^2 **b.** 0 Kg/cm^2

c. 6 Kg/cm^2 **d.** 3.5 Kg/cm^2

147. During loco brake testing WAG 9 should not to move below …….. KN. **( )**

a. 100 KN **b.** 150 KN

c. 300 KN **d.** 125 KN

148. SS 19 belongs to …… sub system. **( )**

a. Fire detection **b.** Train bus

c. Processor FLG 1 **d.** Processor FLG 2

149. Continuous pressing of PSA for 68 seconds caused to …….. **( )**

a. Continuous sanding **b.** Penalty brakes in Dead man's mode

c. Vigilance penalty brakes **d.** None of the above

150. CSC can be activated after attaining of …….. kmph of train speed. **( )**

a. 5 kmph **b.** 1 kmph

c. 1.5 kmph **d.** 15 kmph

Question Bank for Chief Loco Inspector

SC Division

Sub: General Descriptive

1. What are the duties of LI being as first official to accident site?
2. What are the duties of loco inspector during Train parting?
3. What are track parameters affect the running of a train?
4. What are the measurements to be taken in derailed Loco?
5. What are the measurements to be taken in derailed coach?
6. How an accident message will be given and explain with contents?
7. Explain how excess twist will cause an accident with diagram
8. What is sharp flange, how it will cause an accident?
9. How a joint report will be prepared at accident side by supervisors?
10. What are parameters available in strip chart of SPM and how they can be read?
11. What are the parameters of a wagon that will contribute to an accident?
12. What is cross level variation and it will cause an accident?
13. What is versine and what is the permitted value and how it will cause an accident?
14. What is super elevation what is the permitted values and how it will cause an accident?
15. Write various oscillations that happen in locomotives while on run with brief explanation of each.
16. Draw the sketch of tyre defect gauge with locating parameters at which they can measure?
17. Draw the sketch of track gauge with locating parameters at which they can measure
18. What are the reasons for short length (below 2 feet) between point of mount and point of drop and long length (above 2 feet) between point of mount and point of drop
19. What is the procedure to be followed if any Rly. Staff found in drunken state while 'Sign-ON' and 'Sign-OFF'.
20. How the Overtime can be reduced?
21. How the PAD and PDD can reduce?
22. How will you improve the implementation of 10 hrs rule?
23. How you will improve the 'C' grade loco pilot to higher grades.
24. How will you conduct a fact finding inquiry if loco hit a foreign body being a first official to the spot?
25. What are the reasons for panto entanglement?
26. What is regulated OHE and unregulated OHE
27. What is insulated overlap span and insinuated overlap span.
28. Write the various type insulators using in OHE and at what places they will be used.
29. Write the various jumpers using in OHE and at what location they will be used?
30. What are the items to be checked at LC gate?
31. What is the latest committee contributed by the Govt. of India to improve Railway safety and what are the main recommendations to improve safety.
32. Write short notes on AIRs and ARME and their locations in BZA division.
33. Define the following
    a) Rly. accident
    b) Consequent accident
    c) Indicative accident

d) Yard derailment

34 What the various types are of inquires which is held to investigate into Rly. accident

35 How the periodic medical examinations and psychological tests of staff contribute towards improved safety in train operations?

36 Describe some of the mechanical / electronic safety devices recently introduced for better safety in train operation?

37 How the monitoring and periodic screening of staff help in reducing accidents.

38 What are your suggestions to improve safety consciousness among the running staff to reduce the train accidents

39 What are the duties of CTLC?

40 What are the duties of TLC?

41 What are the duties of CC?

42 What are the duties of CCC?

43 Being a first official to the accident spot of panto entanglement how you will deal the situation.

44 Being a first official to the accident spot of manned level crossing gate how will you deal the situation?

45 Being a first official to the accident spot of train passed a stop signal at ON how you will deal the situation.

46 Being a first official to the accident spot of wagon derailment how you will deal the situation.

47 Being a first official to the accident spot of wagon derailment by taking two routes how you will deal the situation.

48 Being a first official to the accident spot of rear end collision how you will deal the situation.

49 How an electrical fault isolated in OHE

50 Who is authorized to operate Switch Mains……?

51 What are the various sectionings and parallellings provided in OHE either to isolate or to make continuity and explain the location of each location at which they used?

52 Write about payment wage act?

53 Write about minimum wages act?

54 Write about the importance of workman's compensation act.

55 What are the factors which will not comes under WCA during accident for payment of compensation?

56 What are the duties of supervisor in case of on duty injury or disablement of an employee

57 How many schedules available Workman's Compensation Act and what are they

58 What are the points to be displayed at work place under factories act?

59 Write short notes about factory act.

60 What are norms to be kept in mind while preparing loco links explain with illustration?

61 What are norms to be kept in mind while preparing crew links, explain with illustration?

62 What are the advantages of air brakes

63 What are the disadvantages of air brakes

64 In BZA loco shed 150 locos are available. How much outage can be given to goods if coaching requirement is 41.

65 What is EKM of loco and crew how these will be calculated?

66 What are the services / movements comes under ineffective outage

67 How many employees are required if 2 members working in a shift of 12 hrs roster and 8 hrs roster
68 How the assessment of goods crew will be done.
69 Expand GT KM and what is the formula for calculating the GT KM
70 What is the line capacity and what are the factors affecting the Line capacity?
71 What is operating ratio? How to improve it?
72 what is ruling gradient and how it is affecting the sectional Load?
73 What is critical block section
74 Why isolation is needed and interlocking is needed? Explain with illustration.
75 Write the advantages of MAS signals than TAS signals.
76 What is an electric shock, how first aid will be render to the electrocuted person?
77 What is the procedure to conduct running time trials?
78 How the load trials will be conducted what are factors affecting in fixing of train load.
79 Write the duty at a stretch and rest rules pertaining to Running staff.
80 Draw a sketch of crew link having 8 men
81 How the dead loco will be cleared.
82 What are steps to be taken to improve outage in goods service?
83 What are the steps to be taken to improve the average speed
84 What is punctuality? Advise how to improve the punctuality and factor affecting the punctuality.
85 What is Booked speed, Max. Permitted Speed, Minimum running time and Normal running time?
86 How to negotiate a neutral section having 30 kmph caution order at neutral section
87 How will you counsell a loco pilot to drive a train if 20 KMPH speed restriction is existing at the peak of the gradient?
88 Expand the following
1) RITES 2) IRIEEN 3) COFMOW 4) RDSO 5) CORE 6) FOIS 7) COIS 8) IVRS 9) CRIS 10) IRISET
89 Expand the following
1) BCM 2) TTM 3) SPART 4) TRR 5) TFR 6) TSR 7) PQRS 8) BWM
90 What is fire? How fires are classified and hoe the each fire will be controlled?
91 Write the procedure to be followed to condemn a detonator and fusee
92 What are the ill affects if lateral clearance is more in loco?
93 What are the points to be observed in new erection of signal
94 How tracks reading will be taken during derailment
95 What are the reasons for stalling
96 What is combined train report?
97 What is Quick coupling?
98 Write about Working time table and passenger time table and why skip time is necessary?
99 Write the types of passes available in Railways to the Railway employees.
100 Write the entitlement restrictions of various passes to running staff
101 What is the metal pass and what are the various metal passes available in Railways.
102 What is the split pass?
103 What is hospital pass?
104 What is privilege pass?
105 What are the service restrictions in issuing of number of privilege passes to the Railway employee?
106 What are the service restrictions to issue post retirement passes?

107 What is the time limit in usage of privilege pass?
108 What are the route restrictions to be followed in using of privilege pass
109 What is school pass and whom it will be issued
110 Who are eligible for include in privilege pass.
111 If wife and husband both are Railway employees, how many passes both are eligible
112 What is SDP and for what distance it can be used?
113 What is 'DCP' and to whom it will be issued?
114 Is Recognized organized labor member eligible for duty pass for proceeding any general body meeting.
115 When a son aged beyond 21 years will be included in a privilege pass?
116 When a daughter aged beyond 21 years will be included in a privilege pass?
117 Up to what date last year passes and PTOs can be issued?
118 If last year passes issued in current year up to what date it will eligible to travel?
119 If a loco pilot retiring in a 31st Jan how many privilege passes and PTOs he is eligible?
120 What is joining time for first 1000 kms?
121 How many days joining time is admissible during request transfer?
122 What are the restrictions to be followed to suspended employee in respect to promotion?
123 What type of documents can be allowed to examine by the DE.
124 Write about the documents in respect to DAR cases.
125 Who will be nominated as presenting officer and who will be nominating as inquiry officer?
126 What is periodicity of PME to be followed?
127 What are medical standards to be maintained by a loco pilot and Loco Inspector, Box boy, Running cook, and RR bearer?
128 If person completed his PME on June 20th of 43rd year, what is his next medical due date.
129 What are the PME period treated as on duty?
130 If an employee is changing his spectacles, how may days he is eligible to undergo PME ?
131 What are the differences between PME and special PME?
132 What are the occasions can the employee can be directed for special PME?
133 What action can Railway administration has to take if an employee reports after 45days absent?
134 What action can Railway administration has to take if an employee reports after 90 days absent?
135 What are the types of leaves existing in Railways?
136 Write about Leave rules.
137 What is the procedure to grant quarantine leave?
138 How many days of LAP/LHAP credited in January?
139 How many days LAP can be enchased?
140 How a sick leave can be commuted?
141 Write short notes on paternity leave.
142 " " Maternity leave
143 " " Hospital leave
144 " " Casual leave
145 " " Special casual leave
146 " " leave not due
147 If a person joins in December into Railway how many casual leaves he is eligible?

148 Is casual leave can prefix or suffix with any kind of leave?
149 How many days of causal leave eligible to running staff in a calendar year?
150 What is S.O.P in granting of leave by Sr. Supervisor to Running staff and other staff?
151 Distinguish between hospital leave and special disability leave
152 How is un availed portion of joining time will be Dealt?
153 Write the duty roster of running staff.
154 List out the categories under HOER and indicate rostered hours of each category?
155 Write the differences between Essentially Intermittent and Continuous categories.
156 Write about PNM and JCM
157 Distinguish between Excluding and Continuous category
158 Distinguish between Supernumerary posts and Temporary post
159 What is assumed attendance?
160 Write short notes on Intensive and Essentially Intermittent category.
161 What are the allowances admissible to running staff?
162 How TA will be calculated?
163 What is the formula for calculating for Over Time Allowance?
164 What is the formula for calculating for break rest allowance?
165 How shunting allowance admissible to running staff?
166 How OSRA will be admissible to running staff
167 Write short notes on OSDA
168 What is officiating allowance and how it will be calculated?
169 What is transfer grant?
170 How much amount can be granted towards spectacles?
171 What is the formula for calculating NDA?
172 What are the advances that running staff are admissible?
173 How many types of quarters available in Railways?
174 Write the entitlement of quarters to running staff?
175 What is the procedure to allot Railway quarters?
176 When a Railway servant will be placed under suspension
177 What are the compulsory deduction from subsistence allowance during suspension period
178 What are to be taken to keep the number of employees in control under the suspension
179 What are the entitlements are eligible to the suspended employee
180 What are the restrictions on the suspended employee
181 To whom the suspension are revocation orders to be served
182 What are the minor penalties
183 What are the major penalties
184 What is the procedure to impose minor penalty
185 What is the procedure to impose minor penalty during the loss of Railway properties
186 What are the differences between major and minor penalties
187 What is the procedure for imposing major penalty
188 What are the various stages in imposing procedure of imparting major penalty
189 What are the occasions to follow common proceedings
190 Write model time schedule for progress of major penalty ‘DAR’ cases?
191 What is daily order sheet?
192 What are the norms to be followed while appointing an inquiry officer
193 What are the occasions to change inquiry officer?
194 What are the norms to be followed in selecting a defense counsel?
195 Who all are called prosecution witness and defense witness

196 What are the differences between fact finding and 'DAR' inquiry
197 What are the difference of Rule No. 9 and 14 of DAR act?
198 What is the procedure to be followed during expert inquiry?
199 How an inquiry report shall be prepared
200 What are the annexure available in major penalty charge sheet and explain each of them?
201 What is the determination of appellate authority
202 What are the differences between removal and dismissal?
203 What are the facilities to be given to the defense counsel?
204 What are the circumstances to postpone and inquiry?
205 What is the role of an IO if delinquent wants to submit any defense witness/documents
206 What is the procedure to be followed while examining the prosecution witness and defense witness during inquiry?
207 What is procedure to be followed by an I.O. during any submission by CE during inquiry
208 Write the abbreviations of the following
1) DAR 2) VC 3) SPE
209 Who is the head for vigilance at zone level?
210 What are standard forms for the following
a) Order suspension under Rule No.5 (1)
b) Order suspension under Rule No.5 (2)
c) Appointment of Inquiry/Board inquiry
d) All the forms
211 What is differences between disciplinary authority and appellate authority
212 What is differences between revision and review
213 **Standards for using disciplinary proceedings**

214	Order of suspension under Rule 5 (1)	SF-1
215	Order of deeming a railway servant under suspension under Rule 5(2)	SF-2
216	Certificate to be furnished by suspended official under Rule 2043 (I)-R-II	SF-3
217	Order of revocation of suspension under Rule 5(5)(c)	SF-4
218	Charges sheet for major penalty under Rule 9	SF-5
219	Refusing of Permission to inspect documents	SF-6
220	Appointment of Inquiry/Board of Inquiry	SF-7
221	Appointment of Presenting Officer	SF-8
222	Not printed	SF-9
223	Disciplinary Action in common proceedings	SF-10
224	Appointment of Enquiring Authority in common proceedings.	SF-10(a)
225	Appointment of presenting officer in common proceedings	SF-10(b)
226	Memorandum of charge for imposing minor penalties	SF-11
227	Charge-sheet for initiation of Minor penalty proceedings in cases where Disciplinary Authority decides to hold the inquiry under Rule 11(1)(b)/11(2)	SF-11(b)
228	Taking disciplinary action for minor penalty where charge-sheet for major penalty was initially issued	SF-11(c)
229	Memorandum where action is proposed under Rule 14(i)	SF-12
230	Standard form of sanction under Rule 2308 RII	SF-12
231	Standard Form of charge-sheet for proceedings under Rule 2308 RII	SF-14

Question Bank for Chief Loco Inspector

SC Division

Sub: G&SR

1 Write the essentials of absolute block systems
2 Write the essentials of automatic block system
3 What are the trains can be dispatched to open communication in single line during total interruption of communications
4 What is station section and block section.
5 Write the station section of B-class station multiple aspect signals in double line
6 Write the station section of B-class station multiple aspect signals in single line
7 Write the station section of B-class station two aspect signals in double line
8 Write the station section of C-class station multiple aspects in double line.
9 Write the conditions to grant line clear in B-class station double line
10 Write the conditions to grant line clear in A-class station
11 Write the conditions to grant line clear in C-class station
12 Explain bloc overlap and signal overlap.
13 What type of abnormalities will come under breach of block rules?
14 What block back and block forward.
15 Why **Isolation** and **Interlocking** is required in the signalling system.
16 Explain what is unsignalled movement?
17 Explain how a train can be received in to an obstructed line.
18 Explain how a train can be received into an unsignalled line.
19 How to distinguish the general rule and subsidiary rule.
20 Write about subsidiary signals.
21 What is a Repeating Signal and Signal Repeater
22 What are the minimum equipment of signals be provided in A-class, B-class and C-class station.
23 Write about exchanging of **alright signals**
24 Write the procedure to work a train without guard.
25 Writer the procedure to work a train without brakevan.
26 Write the significance for provision of IB signal. Explain how the signal is provided with diagram and write how to pass IB signal at ON.
27 Write about detonating signals
28 Write about fusee signals
29 Write about block section limit board and shunting limit board.
30 Write about various engineering indicators come across while working a train.
31 Write about Stop-board, S-board, W-board, W/L-board, W/B-board and shunting warning board.
32 Write how to pass an automatic signal at 'ON' in double line and single line.
33 How the communications will be opened in single line during total interruption of communications.
34 How the trains can be worked in automatic block system if prolonged failure of automatic signals.
35 How the train can be secured in block section and station section.
36 What are the precautions to be taken while working material train?
37 How to clear the front portion and leftover portion from block section?
38 How many types of shunting available and explain each of them.
39 Write about the responsibilities for supervising the shunting
40 How many types of interlocking are available? Explain each of them

41 What are the occasions to issue a caution order? How it will be prepared and served.
42 Write about station working rules.
43 Write about various types of ODCs working.
44 How the wagons containing explosives and inflammables will be marshalled in various trains.
45 Which is the circumstance called as total interruption of communication and in double line how the trains can be dealt?
46 What is train signal register and what are the contents available in it.
47 Write about the duties of loco pilot in case loco unable to haul the load?
48 Write the duties of loco pilot in case of train parting.
49 How the trains will be worked in case one line obstructed in double line.
50 What is the significance of each column provided in T-1425(a) & (b)
51 How a damaged vehicle can be cleared?
52 How you will guide the loco pilot to clear the stalled train from the peak of the gradient.
53 A train arrived to BZA by 120 min. late. BZA-MAS is the last lap of its journey. Engg. Allowance is 34 min, traffic allowance is 48 min. and loco allowance is 32 min. Explain how the train can be gained punctuality.
54 Write about the indications of accident siren and in case of siren defect how the communication is dealt.
55 How the railway accidents are categorized?
56 How a run-over case is dealt.
57 Write short notes on block ticket
58 Write the conditions for taking off home signal.
59 Write about point indicator and trap indicator
60 Write about how a stop signal can be passed at ON.
61 What are the duties of loco pilot in absence of fixed signal?
62 Write about the hand signals.
63 Write the duties of loco pilot in case of accident.
64 Why signal warning boards are necessary and where they are provided.
65 What are the duties of loco pilot while starting from an originating station?
66 How the guard can be intimated by the loco pilot to protect the train in rear in case unable to proceed further.
67 How the engineering indicators will be provided in case of various speed restrictions within 200 meters at same spot.
68 How many types of working systems are existing and among them which are available in S.C.Railway.
69 How an automatic gate signal will be passed at ON.
70 What are the occasions to back the train and what is the procedure be followed.
71 How a semi automatic signal will be passed at ‘ON’
72 What are the warning boards available at neutral sections? Write the duties of loco pilot while passing at neutral sections.
73 How many types of freight train BPCs are available and explain them.
74 What are the communications available between loco pilot and guard?
75 What are the various injuries related to accident manual and explain each of them.
76 How the train can be worked in case explosion in track or train.
77 What are the instructions regarding the usage of portable field telephone.
78 How many types of signals available
79 How a train can be dealt on calling on signal
80 How many types of repeating signals available and explain each of them.

81 What are the signals cannot be used for shunting operation.
82 If two home signals are placed on same post, explain to which route they belong.
83 Why signal sighting committee is needed and what is the periodicity of inspections?
84 Write the duties of loco pilot on seeing a flasher light on adjacent line.
85 Write the duties of loco pilot in case of explosion of a detonator
86 How the train can be protected in case of accident in double line absolute block system.
87 How the train can be protected in case of accident in double line automatic block system
88 How the train can be protected during the total interruption of communication in single line absolute block system
89 How the train can be protected on double line during total interruption of communication
90 How the train can be stopped on out of course at station in automatic block system
91 What are the duties of loco pilot when train detained at first stop signal
92 What are the precautions to be taken when moving a C-class ODC in electrified section
93 How the trains can be dealt during struck up of permissible signal in OFF aspect.
94 What are the authorities will be given in single line to perform shunting at various occasions provided with push button type block instrument.
95 What is the authority to perform shunting in double line multiple aspect signals at various occasions?
96 Write the differences between position light shunt signals and shunting permitted indicator.
97 How a train can be dispatched from an un-signalled line?
98 What are the differences of interlocked working and non-interlocked working?
99 Why sand humps are necessary?
100 How the train can be passed on a weld failure / rail fracture or multiple rail fracture?
101 How a work spot having stop and start will be protected by engineering indicators.
102 Define ISMD ?
103 Which equipment is given the fourth option in the order of preference in obtaining line clear?
104 Which no. of channel/frequency is freezed for obtaining / granting line clear when line clear is obtained/granted through VHF sets?
105 If SM of station ‘X’ cannot obtain the attention of station ‘Y’ on the block instrument, after how many minutes, the SM ‘X’ will go to next means of communication?
106 Which type of indicative accident is reportable by telephone to Railway Board by the Zonal Railway and by the Division to the Zonal Railway?
107 Who is the accepting authority for all other Consequential Train Accident, except UMLC accidents?
108 What is the station section at a Class ‘B’ station with Multiple Aspect Signals on double line?
109 What is the authority required for performing shunting beyond outermost facing point/BSLB on a double line class ‘B’ station?
110 “Dispatch a message from a block station intimating the block station immediately in rear on a double line or either side on a single line that the block section is obstructed or being obstructed”. What is this?
111 What is the name given to the celebrations that are going on in our Railway?

Question Bank for Chief Loco Inspector

SC Division

Sub: G&SR
Objective

1. Approved special instructions means special instructions approved by _____
2. Anemometer is provided for measuring _____
3. Wind velocity considered dangerous is _____kmph and above.
4. No railway servant directly connected with the working of trains shall take alcoholic drinks or narcotics within _____ hours before commencement of duty.
5. BOL in TAS and MAS is _____mtrs. and _____ mtrs.
6. BOL shall be reckoned from _____signal.
7. SOL in TAS and MAS is _____mtrs. and _____mtrs.
8. Isolation is compulsory when the speed of run through trains exceeds _____kmph.
9. In semaphore territory when there are no lights in OFF position, to pass the reception signals, the Driver can proceed _____
10. To attach an O D C prior approval of _____should be taken
11. Speed of "C" class O D C shall not exceed _____ kmph on BG
12. Signal Warning Board is provided in rear of FSS at _____mtrs. in electrified section.
13. When inner distant is provided, the distant signal shall have _____and _____aspects only.
14. The calling on signal shall display _____ light in ON position during night.
15. The calling on signal may be provided below any stop signal except _____
16. Shunt Signal may be provided below any stop signal except _____
17. When shunt signal is defective _____ is the authority for the Driver to pass the signal.
18. When shunting permitted indicator is defective _____ is the authority for the Driver to pass the Shunting Permitted Indicator.
19. Detailed instructions regarding working of Shunting Permitted Indicator will be incorporated in _____
20. _____signal does not show any light in any position at any time.
21. A Semi Automatic stop signal is distinguished by _____
22. Fog signal post is located at _____mtrs. in rear of outer most signal of the station.
23. Fog signal post is painted with _____ & _____ colours alternatively.
24. Visibility Test Post is painted with _____&_____ colours alternatively.
25. Visibility Test Post is located at _____ mtrs. from SM's office.
26. Normal aspect of the fixed signals, except automatic signals, will be _____
27. The speed of a train while entering terminal goods yard is restricted to _____ kmph.
28. The speed of a train in 1 in 8 ½ turnout provided with 60 kg sleepers and rails restricted to _____kmph.

29. Normal authority to proceed on double line is _____
30. When LSS fails in token less territory on single line, the authority shall be _____
31. The minimum vacuum required in engine of a goods train is _____
32. The minimum vacuum required in brake van of a goods train is _____Cms.
33. Twin pipe system is provided in _____ _____trains
34. Under approved special instructions, when a colour light distant signal is combined with LSS the aspect in its ON position shall show _____light.
35. A gate stop signal in automatic territory is distinguished by _____marker
36. Backlight of semaphore signal will be visible in _____position of the signal.
37. On double line, authority to pass Home Signal of a class C station at ON is _____
38. When Advanced Starter is defective on double line the authority for the Driver to start a train is _____
39. On single line token less section when advanced starter is defective authority to proceed for the Driver is _____
40. The presence of outlying siding points is indicated by _____ marker board.
41. In MAS signaling a single arm home is sufficient when the speed of trains through station does not exceeds _____kmph.
42. The OFF aspect of the Warner Signal indicates _____
43. When an IB signal is defective, before starting the train the Driver shall be given _____authority.
44. When a signal is newly erected or recited, caution order shall be issued for a period of _____days.
45. Slip siding is provided to protect _____
46. Catch siding is provided to protect _____
47. Even though all signals are semaphore signals at a station, under approved special instructions _____ signal can be a colour light signal.
48. Shunting in the face of an approaching train outside the home/outer most facing points in TAS/MAS shall only be done where _____
49. While performing shunting on passenger carrying train, shunting engine with or without coaches shall first come to a halt at _____mtrs. away from the train.
50. Whenever attaching or detaching of _____four wheeler unit wagons or more taken place a fresh B P C shall be issued.
51. At intermediate station when vehicles attached to train the entry in V.G. shall be made by _____
52. A single four wheeler vehicle must not be marshalled between _____
53. By express trains a maximum of _____ coaches may be attached in rear of the rear brake van excluding officers carriage.
54. When shunting the wagons loaded with petrol the speed shall not be more than _____kmph.

55. The empty/load handle should be set in empty position when the wagon is empty or partially loaded with gross load not exceeding _____tonnes.
56. When full train is shunted across the main line, shunting must be supervised only by _____
57. While hand shunting of vehicles fitted with other than roller bearing on a gradient steeper than 1 in 200 the speed is restricted to _____kmph.
58. Shunting beyond advanced starter and up to FSS of opposite direction on single line token less section is _____
59. Shunting of wagons containing explosives shall be carried out only under the supervision of _____
60. The speed of a tower wagon shall be _____kmph.
61. The speed of an engine returning on T/609 shall not exceed _____kmph.
62. The speed restriction that has to be observed by a Driver when headlight of engine fails on BG is _____kmph.
63. _____speed restriction to be imposed by the SM when he receives the message of rail fracture of less than 30mm.
64. The speed of the light engine proceeding on T/J 602 is restricted to _____kmph.
65. Maximum speed of the relief engine proceeding on T/A 602 on double line is _____
66. Speed of the first train during temporary single line working is restricted to _____kmph
67. The speed while pushing back with guard traveling in engine showing hand signals, shall not exceed _____kmph
68. The speed of the train while pushing back with guard traveling in leading vehicle fitted with braking equipment shall not exceed _____kmph.
69. While engine returning to bring the remaining portion of train left behind in block section should not exceed _____kmph
70. A gate cum distant signal shall be located at a distance of _____mtrs. in rear of the gate
71. Where trains are booked to stop for less than 5 min. at a station outgoing tokens shall be delivered _____
72. The signals shall not be taken OFF for shunting purpose is _____
73. The gate signal in automatic signalling with extinguished A marker shall show _____light when gate is in open condition.
74. Normally the life of a detonator is _____
75. Normally the life of a fusee is _____
76. Life of a detonator after successful tests can be extended by one year each time subjected to maximum of _____
77. Life of a fusee after successful tests can be extended by one year each time subjected to maximum of _____
78. _____No. of detonators shall be given to a Fog signal man.

79. When a petrol man does not arrived to station in time as per schedule time, _____ SR can be imposed.
80. When a passenger train does not arrive within _____mins. after running time, it shall be deemed as trains unusually delayed.
81. When a goods train does not arrive within _____min. after running time the SM shall send search party.
82. During thick foggy and tempestuous weather, impairing visibility detonators shall be placed at a distance of 270 mtrs. from _____
83. In emergency during night a material train may be ordered by _____.
84. The B P C issued by T X R for a material train valid for _____days.
85. Material train should be checked by T X R once in a _____
86. When a material train is stabled at station, the responsibility for the protection is lies with _____
87. Provision of side lights may be dispensed with in _____
88. When a token extracted and subsequently misplaced in block section, the authority for the Driver of a train by SM of rear station is _____
89. When a Driver loses the token while on run in the block section he shall _____
90. Authority to proceed on automatic block system is _____
91. In Automatic block system when all signals and communications are failed, trains are worked on _____
92. When LSS fails on single line automatic block system the ATP is _____
93. When train run on T/D 912 the speed shall not exceed _____kmph
94. During TSL working the second and subsequent trains proceeding on wrong line on automatic block system shall observe a speed restriction of _____kmph.
95. Example for Breach of Block Rules_____
96. Interruption to through traffic for more than 12 hours on main line is called _____
97. On trunk routes interruption to through traffic exceeds _____ hours is treated as serious dislocation to traffic.
98. Where the damage to property exceeds Rs. _____ it is treated as serious accident.
99. First aid boxes of Station shall be checked by the respective ADMO's once in____
100. If inter distance between the stationary train & the observation is less than _____mtrs. outside station limits, is treated as an averted collision
101. An example of consequential accident is _____
102. Joint inspection of medical relief van by DMO, DSO, DME & DEE will be conducted once in _____
103. Outside the station section, when the distance between obstruction & the train having come to stop is less than 400 mtrs. it is treated as _____

104. MRT is to be turned out within _____ mins. from stations having direct dispatch facilities.

105. MRT shall be dispatched to accident stop from stations having indirect dispatch facilities within _____

106. ART shall be ready within _____ mins. by day and _____ mins. by night.

107. Accident siren four long and one short indicates _____

108. Accident siren three long and one short indicates _____

109. During day time accident relief train shall be dispatched within _____ mins.

110. No. of wagons loaded with explosives are allowed by goods train _____

111. No. of wagons containing explosives are allowed by parcel / mixed train _____

112. Minimum _____ no. of guard wagons are required between wagons containing explosives and a passenger carriage.

113. On sections when double heading is prohibited distance equivalent between train engine and the dead engine shall be _____ wagons.

114. On double line section during total interruption of communications the direction of traffic shall remain _____

115. During total interruption of communication all trains shall be stopped at _____

116. Time interval between subsequent trains on double line at the time of total interruption of communication is _____ mins.

117. Authority to enter into the obstructed block section in absolute block system is _____

118. During foggy weather impairing visibility in Absolute block system, caution order given to Driven shall contain speed restriction of _____kmph.

119. Authority to be given to Driver during TSL working is _____

120. Form No. of block ticket _____

121. Trolleys and lorries working during night under block protection on double line shall be treated as _____

122. Trains not allowed on block ticket are _____

123. Authority to receive a train on to an obstructed line is _____

124. Authority to start a train from non-signaled line provided with common starter is _____

125. Before detaching engine within station limits where gradient is 1 in 600 hand brakes of _____ vehicles shall be applied.

126. If the wagons are fitted with roller bearing _____ gradient is considered as steeper gradient.

127. Pushing back should be done only with the permission of _____

128. Whistle code to indicate fouling mark not cleared is _____

129. Whistle code to alert SM to exchange all right signal is _____

130. The only signal that can't be taken OFF during total interruption of communication is _____

131. When block telephone has failed next means of communications for obtaining line clear in order of preference is _____

132. A motor troley/ trolley/moped trolley shall be accompanied by _____ while opening out communication on single line.

133. _____ authority will be given to Driver while returning back after opening communication with or without train on single line.

134. During power block _____ trains may be allowed.

135. The danger zone is within the radius of _____ mtr. in electrified section.

136. When healthy section is temporarily isolate and re-energised, the SM shall issue caution order to the Driver of first train to restrict the speed to _____ kmph.

137. The lowest rank employee who can organize line block on control telephone is _____

138. Generally not more than _____ mins. shall be allowed to a goods train to start after engine has been attached when it is not tested by vacuum exhauster/air compressor.

139. The time permitted for GDR check of train consisting of 60 units is _____mins.

140. In ghat section area the Guard and Driver will be given _____ LR trips.

141. If an air brake train stalls at a gradient of 1/400 and above the brakes should applied by _____

142. Breathyliser test of crew is done _____

143. If a detonator is exploded by a train, _____distance to be worked cautiously.

144. The no. of detonators that are available with Driver are _____

145. _____will be switched automatically in loco, during accidents.

146. _____ is the duty of LP while approaching LC gate.

147. After detaching loco from load, the safety check that is to be exercised by the Driver before working light engine is _____

148. Weather Asst. Driver can clear a section with restricted speed in case Driver becoming incapacitated?

149. If a Driver experiences abnormal jerk before IBS, where should he stop his train?

150. At the time of taking charge if the flasher light glows but not blink what action would you take?

151. What would you do in case you get a call to work an ART, while under rest?

152. After which check / restriction, non derailed coaches of a passenger train involved in accident be allowed for onward journey?

153. What immediate action will you take if a train stops on a gradient section due to failure of OHE?

154. Action to be taken by a driver, immediately on bursting a detonator is _____

155. Necessity of brake feel test is _____

156. What would you do if calling on signal show OFF aspect while approaching a stop signal?

157. When LP passing IBS at 'ON' due to non-working of phone and after waiting for 5 min. _____ speed to be maintained.

158. At what distance from obstruction detonators are placed on occupied line in automatic signaling area?

159. Colour of flasher light is _____

160. In absolute block system the maximum speed of the train while pushing back during normal conditions is _____ kmph.

161. The whistle code to indicate the train parting is _____

162. The safety radius in which no person / staff should be allowed while exploding a detonator is _____ mtrs.

163. In case of working with two or more engines coupled, who shall be responsible to obey the signals?

164. After passing automatic signal at ON at what distance would you stop on observing obstruction?

165. What is the maximum speed of the train during day if no contact established with TPC and OHE supply is restored after 5 mins?

166. In absolute block system on BG at what distance detonators are placed for a protection of train?

167. The absolute block system at what distance detonators are placed before the approach signal of the station during fog?

168. On failure of OHE, after what time the flasher light should be switched on?

169. What immediate action would you take by noticing sudden drop of BP pressure / vacuum on run?

170. Special instructions are issued by _____

171. Shunting order form No. _____

172. General rules are issued by _____

173. In emergency a goods train can be ordered without guard by _____

174. When a train is held up at FSS for more than _____ mins. the Driver shall depute Asst. Driver to go to the station.

175. Divisional caution order form No. is _____

176. Authority for a relief loco / train into the occupied block section in automatic block system is _____

177. W/L board should be located at a distance of _____ mtrs. before LC gate in double line.

178. Emergency telephone point is provided at every _____ mtrs. in OHE area.

179. Mock drills of ART shall be conducted once in _____ by a safety officer.

180. At standard III interlocking station maximum speed over M/L is _____

181. While passing through a neutral section speed of a train should not be less than _____

182. During TIC on D/L ATP for the Driver is _____ and speed is _____ kmph.

183. Maximum speed for shunting operations is _____ kmph.

184. Authority to perform shunting into rear block section on D/L is _____

185. When electric loco leading cab defective and Asst. Driver is driving from trailing cab, speed should not be exceed _____ kmph.

186. Speed of a train while testing detonators is _____kmph.

187. Stop indicator is located _____ mtrs. before the stop dead and proceed speed restriction.

188. After stopping at the stop indicator Driver shall sign in the _____ book.

189. When a fusee is lighted it gives a bright red flame for _____ mins.

190. While receiving a train on an obstructed line, SM shall arrange to show a stop hand signal at _____ mtrs. before the obstruction.

191. Whistle code to indicate alarm chain pull is _____

192. FP pressure in loco shall be _____ kg / cm^2 and in SLR is _____ kg / cm^2.

193. The most restricted aspect of a distant signal is _____

194. Violently waving a white light horizontally across the body of a person indicates _____

195. The signal that protects the block section is _____

196. At present _____ No. of types of interlocking standards available.

Question Bank for Chief Loco Inspector

SC Division

Sub: Official Language

1 When official language act formed?
2 Write the communication procedure between 'A' and 'B' region central govt. officers?
3 Write the communications procedure between central govt. and state government offices of various regions
4 Write the communications procedure between state govt. offices of various regions.
5 What are the states in 'A', 'B' and 'C' regions
6 Write short notes on proficiency in Hindi
7 Write short notes on working knowledge on Hindi
8 Write short notes on manuals, codes other Literature articles of …. etc. to be maintained in relation to official language act.
9 What are examinations will be held for improving Hindi and explain them briefly.
10 What are the incentives to be given to clerks in encouraging Hindi?
11 What are the incentives to be given to stenographers in encouraging Hindi?
12 What are the awards established for promoting Official language.
13 What is the importance on forming of official language?
14 Write your suggestions to improve the implementation of official language?

Question Bank for Chief Loco Inspector
SC Division

Sub: D & A R
Objective

1 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.

2 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.

3 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

4 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.

5 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.

6 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.

7 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 charge.

(C) A list of relied upon documents.
(D) A list of witnesses by whom charges are proposed to be proved.

8 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. C

(D) Where services of a railway servant are to be terminated in accordance with the terms of agreement.

9 A retired railway servant may act as defence counsel.

(A) in not more than 2 cases. B

(B) in not more than 5 cases.

(C) in any number of cases.

(D) in no case.

10 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.

11 "Charge" means - a railway servant's action :-- D

(A) not appriciated 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.

12 Find out among the following the aspect which is vilotive of principles of natural justice :-- C

(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.

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

(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 hihger or lower than Compulsory Retirement.

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

(A) 15 days

(B) 45 days

(C) 60 days

(D) 180 days

15 Where departmental proceedings and criminal proceedings in a Court are running concurrently :--- B

(A) Departmental proceedings should be finalised earlier to criminal proceedings.

(B) Departmental proceedings should not be finalised till criminal proceedings are finalised.

(C) Departmental proceedings should be dropped soon after the initiation of criminal proceedings.

(D) The Court hearing the criminal case should be advised to pend its proceedings till finalisation of departmental case.

16 A witness who is summoned by Disciplinary Authority to prove the charges, deposes before I.O. in favour of charged official. Such a witness is called. D

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

17 During re-examination of a witness in the departmental inquiry by in I.O. B

(A) a question to bring out altogether a new evidence can be asked.

(B) a question to explain certain statements made by him in the earlier cross-examination, can be asked.
(C) the witness should be asked to tell his story again.
(D) the witness should be put questions to reiterate his answers given in the examination-in-chief.

18 The power to remove a doubt or interpret any of the provisions of RS (D&A) Rules, 1968 rests with :-- D

(A) Divisional Railway Manager
(B) Chief Personnel Officer
(C) Railway Board
(D) The President of India

19 The document through which the alleged misconduct is communicated to a railway servant advising him to submit explanation, is called :-- A

(A) Charge sheet
(B) Penalty Notice
(C) Show-Cause Memorandum
(D) Daily Order Sheet
(E) None of the above.

20 "Revision" under Rule 24 (2) & 24 (3) of RS (D&A) Rules is confined to railway servants who have been imposed :-- D

(A) Any one of the MINOR penalties only
(B) any one of the MAJOR penalties only.
(C) Any penalty MAJOR or MINOR.
(D) Penalties of Dismissal, Removal and Compulsory Retirement.

21 Where there is no presenting officer nominated, a charged official [non-gazetted-serving-SCRailway] may present his case during inquiry :-- D

(A) With the assistance of any person.
(B) With the assistance of serving railway employee of any railway including Railway Board.
(C) With the assistance of only the serving railway employee of SC Railway.
(D) With the assistance of serving or retired railway employee of SC Railway.

22 Authority competent to nominate Inquiring Authority to hold enquiry in the manner specified in Rule 9 of D&A Rules against a non-gazetted railway servant is :- D

(A) General Manager
(B) Revising Authority
(C) An authority to which disciplinary authority is immediately subordinate.
(D) Disciplinary Authority

23 One of the following is barred from acting as Defence Counsel. Find out. C
(A) A serving employee of the same railway to which charged official belongs.
(B) A retired employee of the same railway to which charged official belongs.
(C) A serving employee of the same railway to which charged official belongs but pm deputation to Ministry of Labour.
(D) A serving Welfare Inspector.

24 One of the following is not a penalty under DAR. Find out. C
(A) Withholding of Privilege Passes
(B) Withholding of Post-Retirement Passes
(C) Withholding of PTOs
(D) Withholding of Privilege Passes and PTOs

25 "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 penalites only
(C) All the minor and major penalties
(D) Compulsory Retirement, Removal and Dismissal

26 An official of recognised trade union may assist a charged official during departmental inquiry, if the charged official is :-- C
(A) a non-gazetted railway servant only
(B) either of Group-C or Group-D or Group-B only
(C) a member of any group
(D) another office-bearer of the same Union only

27 Speaking order means A
(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

28 Revision of one's own orders is permissible. NO

29 The competent authorities should themselves sign the communication of orders passed by them. YES

31 Where a penalty of compulsory retirement or removal or dismissal is subjected to suo-moto revision and the penalty is upheld, the railway servant is entitled to prefer an appeal to the authority immediately higher than the one who held suo-moto revision. NO

32 To enhance a penalty already imposed, the railway servant should be given an opportunity to show cause as to why penalty imposed on him should not be enhanced. YES

33 Where a charge is denied, imposition of major penalty without conducting of enquiry in the manner specified in Rule 9 is incorrect. YES

34 For disciplinary powers conferred on authorities in a zonal railway, Schedule - I of R.S. (D&A) Rules 1968, shall be referred to.

35 Revision Authority shall be higher in rank that that of Appellate Authority whether appeal is preferred to or not. YES

36 Denial of request of a railway servant to be heard in person before disposal of his appeal is not a violation of principles of Natural Justice. NO

37 Disciplinary Authority is always the one who is immediately subordinate to Appellate Authority. YES

38 Appellate Authority means the authority to which the disciplinary authority is immediately subordinate. YES

39	Where a railway servant is transferred to another railway after he has been imposed with a penalty, the competent authorities to dispose his Appeal and Revision Petition shall be those on the Railway where he has received the penalty.	YES
40	A Group 'D' railway employee who has been removed from service, after his appeal has been disposed (Penalty upheld) by D.P.O. can prefer Revision Petition directly to GM.	NO
41	Where a railway servant has been imposed with a penalty of reduction in time scale of pay and if it is operative from a future date, the railway servant may be promoted and operate the penalty in higher grade.	NO
42	Where a railway servant has been imposed with a penalty of reduction to lower grade / post and reduction is operate to postpone future increments, he loses his original seniority in the grade / category from which he has been reduced.	YES
43	No authority lower than appropriate appointing authority in relation to a railway servant can impose penalty of reduction to lower grade / post.	NO
44	Penalty of withholding of PRC passes can be imposed on a railway servant who retired from service during pendency of DAR proceedings.	YES
45	Suspension is a penalty.	NO
46	On appeal, if penalty is reduced, revision can still be sought.	YES
47	Revision action, subject to certain exceptions, should not be initiated until after the period for submission of appeal is over where no appeal is preferred.	YES
48	Where no penalty is imposed by Disciplinary Authority, Appellate Authority has the powers to impose the penalty on the concerned railway servant.	NO
49	Reduction of a railway servant to a lower post which he never held is in order since he continues in railway service.	NO
50	While imposing penalty of compulsory retirement it should be ensured that D.A is not lower in rank than that of the Appointing Authority.	YES
51	No penalty shall be imposed with retrospective effect.	YES
52	The minimum penalty that should be imposed in the case of proven illegal gratification is - one of Minor Penalties.	YES
53	Imposition of penalty of reduction in time scale of pay with recurring effect and also with loss of seniority is correct.	YES
54	Where a railway servant has been imposed with a penalty of imposition of withholding of increment and if it is operative from a future date, the railway servant can be promoted if due for such promotion.	YES
55	A Loco Pilot (Goods) of BZA Division is imposed with a penalty by ADEE / TRSO/BZA. Then he is transferred to GTL Division where he submitted an appeal against the penalty. The Appellate Authority in this case is Sr.DEE /TRSO/ GTL Division.	YES
56	Imposition of major penalty without conducting an inquiry in the manner specified in Rule 9, where all charges are admitted, is prohibited.	NO
57	Appellate Authority need not be immediately subordinate to Revising Authority in all cases.	YES

58	Show cause Memorandum need not be issued to a Railway servant to impose a penalty by Revising Authority where no penalty has been imposed by Disciplinary Authority.	NO
59	Association of railway servants with Organisation banned under Unlawful Activities (Prevention) Act, 1967, are liable to be dealt in departmental proceedings.	YES
60	A railway servant seeking election to the post of a Director in which he has to exercise administrative responsibility should obtain prior sanction of the Competent Authority.	YES
61	Failure on the part of the Supervisory Official to ensure the integrity and devotion to duty of all staff working under his control is a violation of Conduct Rules.	YES
62	Railway servants are not prohibited from bringing any outside influence in respect of allotment of residential quarters.	NO
63	A railway servant has been under suspension. Major penalty proceedings have been initiated. Finally minor penalty is imposed. Hence the period of suspension shall be treated as ----------	Onduty
64	The powers to revoke suspension order lie with ----------	Disciplinary Authority
65	Suspension period shall be treated as duty when ----------	Minor penality imposed
66	When charge sheet [SF 5] issued for unauthorised absence, quoting rule 3 (1) (i) [maintain absolute integrity at all times] is---------- **(necessary / not necessary)**	Necessary
67	In the cases where it is proposed to impose punishment of withholding of pension, the show-cause Notice is to be issued by ---------- (Discipllinary Authority on the Railway / President)	President of India
68	A railway servant on deputation to an outside body ---------- (can be / cannot be) permitted to be a Defence Councel to another railway servant in a departmental inquiry.	Cannot be
69	Whether a railway servant under suspension can be permitted to act as Defence Counsel ?	Can be permitted
70	The maximum number of cases, at any point of time, a serving railway servant can accept to be the Defence Counsel are ----------	Two cases
71	A retired railway servant may be permitted to be the Defence Counsel in not more than ---------- cases at any given point of time.	Five cases
72	Whether there is any bar for initiation of departmental proceedings on the same charge where criminal proceedings are already in process in a Court of Law ?	No
73	"Dismissal" from service causes loss of employment, pension, ---------- and ----------	Gratuity and PF
74	"Removal" from service causes ---------- and ----------	Employment and Pension
75	The effect of withholding of increment with cumulative effect is loss of ----------	Seniority
76	Write the circumstances in which a retired railway servant of SC Railway against whom departmental enquiry is pending can have a serving railway servant of Western Railway as Defence Counsel	Cannot permitted
77	As per the model time schedule, the major penalty proceedings are to be completed within ---------- [period - days or months]	150 days or 5 months

78	There are three kinds of Charge-sheets bearing SF Nos---------- ----------, ---------- & ----------	SF-5, SF-11, SF-11 (b)
79	Article of charge means ----------	Allegations made against charged employee.
80	Annexure IV to SF 5 carries ----------	List of Witnesses to be examined
81	A supervisory official holding independent charge of a Unit has the powers to impose penalty of Censure on ----------	Minor penalty charge sheet
82	A railway servant under suspension does not receive any pay for the period of suspension but receives ----------	After revoked
83	An exparte inquiry means an inquiry held in the absence of ----------	Charged employee
84	Where an appeal is disposed by Chief Personnel Officer [Admn] revision petition lies to ----------	General Manager
85	The time allowed to a railway servant to nominate a person to be his Defence Counsel is ---------- days from the date of appointment of E.O.	10 days
86	A legal practioner can be permitted to be a Defence Counsel to a railway servant where in a case ---------- official is nominated as ---------- to present the case in support of charges, on behalf of Disciplinary Authority, before the Inquiring Officer.	Railway, Presenting Officer
87	The time allowed to a railway servant to submit written brief of defence is ---------- days after receipt of charge-sheet.	10 days

G&SR/Accident Manual

Fill in the Blanks

1. Accidents are classified into -------categories and they are ----------.
2. Train accidents are divided into ------parts and they are ----------.
3. Loss of railway property above Rs..... is treated as serious accident.
4. Consequential train accidents that are reportable to Railway Board Safety Directorate are ----------.
5. General target time for turning out ART during day / night is ------ minutes.
6. General target time for turning out MRV with direct / indirect despatch facility is ------ minutes.
7. Composition of MRV is ------- and ----------.
8. Mock drill for ART / MRV shall be conducted once in ------- in case they are not moved on account of accidents.
9. ---------- is the ex-gratia to be paid in case of death/serious injury / simple injury in train accidents.
10. ---------- is the ex-gratia to be paid in case of death / serious injury / simple injury at manned LC Gate accidents where prima-facie failure is on Railways.
11. Rs..... is the compensation paid in cases of death in train accidents.
12. Accident siren three long, one short indicate ----------.
13. Accident siren four long, one short indicate ----------.
14. ----- is the duration of long siren and ------ is the duration of short siren.
15. Threshold value of Railway property loss is fixed at Rs.....
16. In the event of breakdown of control telephone, trains shall be given precedence over each other -in that process running of Goods trains takes ----------place.
17. Block instrument bell code 000000 indicate ------
18. Block instrument bell code 000000000 indicate ------
19. BCC and PCC is valid for a period of ----------
20. As a temporary measure when DSTE/ADSTE issue BCC for Signal Maintainers, such BCC is valid for -------and such extension is limited to ----------

21. Acknowledgement for block bell beat, if not received from the station adjacent, the code shall be repeated after a lapse of --------
22. Single and double line TSR No. is ----

.