

QUESTION BANK FOR WRITTEN EXAMINATION FOR THE POST OF INSTRUCTORS (OPTG) IN PAY BAND-2 Rs. 9300-34800 WITH G.P. Rs.4600/- AT ZRTI/MLY

SECTION I

GENERAL AND SUBSIDIARY RULES

1. State briefly the different types of signals.
2. What are the conditions for taking off?
 - i) Home signal
 - ii) Starter/Advanced starter
 - iii) IBS Signal
 - iv) Calling -on signal.
3. What is the procedure to be followed in case of:-
 - i) Failure of reception signal
 - ii) Failure of departure signal
 - iii) Failure of IBS signal
 - iv) Protection of obstruction on double line section.
4. What is the procedure to be followed for running of trains during Total interruption of communication on single line section?
5. What is the procedure to be followed for running of trains during Total interruption of communication on double line section?
6. What is the procedure to be followed for running of trains on a double line section, when one line is obstructed, when communication is available?
7. Explain the procedure for performing shunting at a station on single line section and double line section in the following circumstances
 - A) Single line:
 - i) With in station section
 - ii) Outside last stop signal, up to opposite first stop signal
 - iii) Outside opposite first stop signal
 - iv) Non- signalled shunt movement.
 - B) Double line:
 - i) with in station section
 - ii) Block forward movement
 - iii) Block back movement
 - iv) Behind a train travelling away
8. What is the procedure to be followed in case of disconnection and re-connection of points? What is the procedure to be followed for dealing trains during disconnection of points?
9. What are the Essentials of Absolute Block System? What are the conditions for granting line clear at a class B station on single line and double line section?

10. Draw a neat diagram of a class B station, on a double line section, provided with MACLS, with common loop facility and demarcate the station section and block section.
11. Draw a neat diagram of a class B station, on a single line section, provided with MACLS, with simultaneous reception facility and demarcate station section and block section.
12. Write the Essentials of Automatic Block System on single line and double line sections.
13. What are the precautions to be observed for securing of vehicles?
- i) at a station
 - ii) In the block section
 - iii) Additional precautions in case of steep gradients.
14. Describe the procedure for working of trains at a station, provided with Intermediate Block Stop signal:
- i) During the normal course
 - ii) When it is defective.
15. What are the usual circumstances for line patrolling? State briefly the various types of line patrolling.
16. State briefly the revised Standard format of Station Working Rules the Chapters and the Appendices.
17. i) What is the procedure to be followed, while working a goods train without Brake van?
 ii) What are the instructions to be followed, while working a goods train without Guard?
18. What is the importance of exchanging all right signal? What are the occasions for exchange of all right signal? Describe them in detail.
19. Write short notes on the following:
- i) permit to work.
 - ii) Neutral section.
 - iii) Emergency Telephone Socket.
 - iv) Forms used only on Electrified sections
20. State briefly the types of caution orders and the circumstances under which caution orders are issued? Describe the procedure for imposition, preparation issue and cancellation of caution orders.
21. What is interlocking? State the various standards of interlocking, with minimum equipment of signals and the speeds permitted.
22. Write short notes on the following:
- i) Route cancellation
 - ii) Calling-on cancellation.
 - iii) Track-circuit/Axle counter failures.
 - iv) Re-setting of axle counter.
23. Describe the procedure in detail in case of-
- i) Train parting
 - ii) Divided train working

- iii) Engine pushing
 - iv) Fire on train
24. i) What are the safety equipments to be maintained at an interlocked L.C gate?
- ii) Write the procedure for working of interlocked and non-interlocked L.C gates during failure of gate stop signal
 - iii) Unusual occurrences at L.C gate
25. Write short notes on latest amendment slip to:
- i) G&SR
 - ii) Block Working Manuals
 - iii) Accident Manual
26. Describe the responsibilities of the Loco Pilot and the Guard while working a train during the run.
27. Write short notes on the following:
- i) Automatic Danger level indicator
 - ii) Marshalling of dead engines
 - iii) Automatic Air Brake System.
 - iv) Isolator
28. Write short notes on the following:
- i) Classifications of stations.
 - ii) Minimum equipment of signals at class B and class C stations
 - iii) Hand Signals
 - iv) Point failure.
29. Explain the procedure for Line Block and power block.
30. What are the precautions to be followed during non-interlocked working?
31. Write short notes on the following:
- i) Engineering indicators
 - ii) Rules for Loco Pilot and Guard to pass an Automatic stop signal at ON
 - iii) Lurch and rail fracture.
 - iv) Block Ticket
32. What is the procedure for running of trains during prolonged failure of all Stop Signals IN Automatic signalling section on double line?
33. Describe the procedure for protection of obstruction, under various circumstances.
34. Write short notes on the following:
- i) Reception of a train on to an obstructed line
 - ii) Engine whistle codes and EMU Bell codes
 - iii) Combined Train Report
 - iv) Protection of work spot

35. State the procedure for working of material train
36. Write short notes on the following:
- i) Motor Trolley working
 - ii) Marshalling of saloons
 - iii) Any ten operating forms.
37. What is the procedure for working of trains under the Automatic Block System , during obstruction of one or more lines, when signals are operative and communications are available?
38. State the advantages of Air Brake System. What are the duties of a Loco Pilot and Guard while working a Goods Trains with Air Brake System?
39. What are the rules to be followed in the following cases:-
- i) Train parting
 - ii) Security patrolling
 - iii) Monsoon patrolling
 - iv) Marshalling of passenger carrying trains
40. Write short notes on the following:
- i)
 - ii) Air Brake System
 - iii) Block proving Axle counter (BPAC)
 - iv) Reception of a train on to a non-signalled line
41. Write short notes on the following:
- i) Data-loggers at stations.
 - ii) Categorization of level crossing gates based on TVUs, as per Boards guidelines
 - iii) Anti-collision device

SECTION II

BLOCK WORKING MANUAL

1. Write short notes on the following:
- i) Bell codes
 - ii) Train Signal Register
 - iii) BPAC
 - iv) FVT and LVT
2. Write short notes on the following:
- i) Train passed without Tail Board/Tail lamp
 - ii) Run away Train
 - iii) Stop and examine Train
 - iv) Signalling train through Control Telephone/VHF SET.
3. What are the occasions Diado's Handle Type and Kyosam/Podanur Push button Token less Block Instruments shall be suspended?

4. What are the occasions under which the SGE Block Instrument shall be treated as defective?
5. Write short notes on the following:
 - i) Precaution before asking and granting line clear
 - ii) Authority to proceed
 - iii) Private number sheet
 - iv) Trains unusually delayed in Block section
6. What are the rules to be followed in case of Paper Line Clear Ticket Working?
7. What is the procedure for cancellation of line clearing case of the following:-
 - i) Universal fail safe block interface
 - ii) Handle type token less block instrument
 - iii) Kyosan/Podanur make Push Button Token less Block Instruments.
 - iv) S.G.E Lock and Block Instrument.

SECTION III

ACCIDENT MANUAL

1. What are the objectives to be achieved while dealing with a train accident?
2. What are the duties of Accident Manager in the disaster management?
3. What are main classifications and sub-classifications of accidents?
4. What is the procedure to be followed in case of dealing with a fire accident?
5. Write short notes on the following:
 - i) MRT and ART and long range siren codes.
 - ii) Serious accident and threshold value
 - iii) Targets for completion of accident enquiries
 - iv) Guidelines for reporting accident cases to Railway Board on Telephone
6. What are the various types of enquires into train accident? Explain the rules and procedure.
7. Describe the organization all setup of CRS. What are the functions of CRS?
8. Write short note on the following:
 - i) Clearing of locos and rolling stock involved in accidents
 - ii) Ex-gratia and compensation payments
 - iii) Action to be taken when a passenger has fallen down from a running train and got killed.
 - iv) Levels of enquiry

SECTION IV

ADVANCED OPERATION

1. What is the Organizational setup of the Trains Control Office? State the Functions of Train Control Office in general.

2. What are the various requirements for ordering a goods train? State the Procedure of ordering a goods train.
3. What is Preferential traffic order? State the various conditions under PT order.
4. State the procedure for wagon/Rake Allotment.
5. Write short notes on:-
 - i) Working Time Table.
 - ii) Computerization of Control Charting.
 - iii) Registers maintained in Train Control Office.
 - iv) SLO.
6. What are the importance of Engine links and rake links? Discuss
7. What are the measures to be taken to improve the speeds of freight trains? Discuss.
8. Write short notes on the following:
 - i) Master Chart.
 - ii) 10 Hour Rule
 - iii) Computerization of Control Chart
 - v) Weather warning telegrams and cyclone warning
9. Write in detail on the following.
 - i) Freights Operation Information System
 - ii) Integrated coaching management system
10. What are the factors affecting punctuality of passenger carrying trains? Describe.

SECTION V

ESTABLISHMENT

1. Describe the following
 - i) Official Language Act 1963 and Official Language Rules 1976
 - ii) Describe the Official Language Policy and implementation on Indian Railways.
2. Describe the various important features of Hours of Employment Regulations.
3. What is suspension? What are the types of suspension? Describe the various Rules relating to suspension.
4. What are minor and major penalties under D&A Rules? Describe the procedure for imposing major penalty?
5. What are the guidelines for granting periodical rest, as per HOER, for the employees falling under the category intensive?

OBJECTIVETYPEQUESTIONS.

FILL IN THE BLANKS

1. The speed of tower wagon shall be as stencilled on it
2. When inner distant signal is provided, the distant signal shall have attention and proceed aspects.
3. During night, the calling-on **signal** shall display no light in 'ON' position.
4. The calling-on signal may be provided below any stop signal except LSS
5. A semi-automatic stop signal is distinguished by illuminated "A" marker when working as automatic signal
6. Shunt signal may be provided below any stop signal except FSS
7. When a shunt signal is defective **T.369(3b)+PHS** are the authorities for the loco pilot to pass signal at ON.
8. Detailed instructions regarding working of shunting permitted indicator will be available in SWR
9. Authority to pass defective LSS on double-line on automatic block system is **T.369(3b)+CO. 10 KMPH.**
10. When a signal is newly erected or re-sited, caution order shall be issued for a period of 10 days
11. Distance between Home signal and B.S.L.B. shall not be less than 180 mts
12. The train speed while entering terminal goods yards is restricted to 15 kmph
13. Normal aspect of the fixed signals, except automatic signals, will be **most restricted aspect**
14. The speed of train in 1in8 1/2turn-out (with curved switch on 52/60kgs rails and PSC sleepers) is restricted to 15kmph
15. The speed of train in 1in 8 ½ turn-out (with curved switch with symmetrical lay out and thick web switches on 52/60kgs rails and PSC sleepers) is restricted to 30kmph
16. The speed over the mainline at a non-interlocked station for an express train is 15kmph
17. In emergency, during night, a material train may be ordered by SM
18. Anemo-meter is provided for measuring wind velocity
19. "S" mark-board indicates presence of outlying siding points.
20. Under approved special instructions, when a colour light distant signal is combined with LSS, the aspect in its 'ON' position shall be Stop
21. In MAS signalling, at a station, a single arm home is sufficient when the speed of trains running through station does not exceed 75 kmph
22. Visibility Test Post, if provided, shall be located at 180 meters from nominated place where SM stands
23. When IBS is defective, before allowing a train PLCT+T.369(3b) authorities are to be given.

24. Fog signal post is located at **270** _____ metres from the first stop signal.
25. After testing the signals, result shall be recorded in **Station Diary** _____
26. The SM of rear station shall give **T. 369(1)** _____ authority for passing a defective stop signal of the advance station.
27. A gate signal is distinguished by **G marker board** _____
28. Provision of side-lights may be dispensed for **EMU/DHMU** _____ and **Goods** _____ trains.
29. In emergency a goods train without Guard can be ordered by **SrDOM** _____
30. Reception signals shall be tested by Station Master **daily** _____.
31. Slip siding protects **Bolck section** _____.
32. Catch siding protects **Station section** _____
33. Whenever a Signal Inspector tests a signal, an entry must be made in **Station dairy** _____
34. During thick, foggy & tempestuous weather, impairing visibility SM shall arrange to place detonators at a distance of 270 meters from **FSS** _____
35. Life of a detonator manufactured during 2010 and thereafter is _____ 5 years _____
36. Wherever two distant signals are provided **signal warning** _____ board can be dispensed with.
37. Visibility test post is painted **(self luminous) yellow** _____ colour.
38. **20** _____ number of detonators shall be given to each Fog signal man.
39. On double line when advanced starter is defective, authority for the Loco Pilot to start a train **PLCT** _____
40. When axle counter of IB signalling is defective, authority for the Loco Pilot to start a trains **PLCT +T.369(3b)** _____
41. On double line, authority to pass home signal of a class 'C' station at ON is **PLCT** _____
42. The speed while pushing back with Guard not travelling in Brake Van showing hand signals shall not exceed **walking speed** _____ kmph.
43. The speed while pushing back with Guard travelling in leading vehicle, a brake-van, showing hand signals to shall not exceed **25 kmph** _____
44. When stabled at stations, responsibility for protection of material train lies with **SM & Guard** _____
45. Shunting of wagons containing explosives shall be carried out only under the supervision of **SM** _____
46. Before detaching engine within station limits , hand brakes of Six effective wagons on either side vehicles are to be applied.
47. Fresh declaration in the declaration register shall be obtained from staff when they resume after an absence of **15** _____ consecutive days.
48. When the Loco Pilot reports that he experienced abnormal condition in the track while on run, engineering official not available, trains may be allowed into the block section giving caution order to observe a speed restriction of **10** _____ kmph.

49. When SM of a station in rear receives a message from the Loco Pilot who entered into block section without authority to proceed, he shall give PLCT as authority to proceed.
50. Speed of engine returning to bring the portion of train left behind in block section during divided train working should not exceed 25 kmph when guard is available.
51. If the Loco Pilot does not whistle and exchange signals with SM he shall intimate to the SM in advance by giving 6 pause 1 bell code.
52. For granting line clear on double line, MACL signalling station having no loop line, line must be kept clear up to BSLB
53. Normal authority to proceed on double line is OFF position of LSS
54. A Loco Pilot working a train has to look back on run, to see whether the train is following in a safe and proper manner.
55. Caution Order is prepared on Form No. T.409
56. In Automatic block system when all signals failed and communications are not available, trains are worked on Form No. T/B 912.
57. In automatic block system single line, when LSS fails, PLCT+T/A.912 authority is given to the Loco Pilot to proceed.
58. When trains are run on T/D-912 on automatic block system, the speed of 1st train shall not exceed 25 kmph.
59. When SM of a station in advance receives a message from the Loco Pilot who entered block section without ATP, he shall give CO as ATP.
60. Trolleys/Lorries working during night under block protection on double line shall be treated as Train
61. The lowest rank employee who can organize line block on control telephone is PWI
62. When block instrument has failed, next means of communications for obtaining line clear in order of preference is Block telephone
63. The speed of shunting of wagons containing explosives shall not exceed 8 kmph.
64. The signal that cannot be taken OFF during total interruption of communications is LSS
65. On double line sections, during total failure of communications when second train has to be sent in to block section, there should be a clear time interval of 30 min
66. When a motor trolley is sent for opening of communications, it must be accompanied by On duty Gd/OFF DUTY ASM
67. After opening of communications, when light engine is returning with or without a train attached to it, authority to proceed shall be CLCT
68. Maximum No. of wagons loaded with explosives allowed by goods train 10.
69. Maximum No. of wagons containing explosives that are allowed by parcel/mixed train 3.
70. Minimum 3 guard wagons are required between wagons containing explosives and a passenger carriage/BV.
71. The maximum speed of the relief engine proceeding on T/A602 is 15/10 kmph.

72. If a circumstance outside station limits is to be defined as an averted collision, the inter-distance between stationary train and the obstructions shall be less than **_400 mts_____**
73. On single line token less sections, authority for shunting beyond advanced starter and up to opposing FSS is **_T.806+Shunt key_ or PN_____**
74. 86. Where trains are booked to stop for less than 5 minutes at a station, outgoing token shall be delivered **_in front of SM's office__**
75. The staff on duty can have only **_2_____** private number books.
76. Colour of route button is **_Gray_____**
77. To take OFF a signal in Siemen's panel, **_UN(route) and _GN(Signal)_____** button must be operated.
78. When LSS fails in token less territory on single line, the authority shall be **___PLCT_____**
79. Collision is an example of **__consequential train _____** accident.
80. When patrolman does not arrive in time after schedule arrival time and marginal time of 15 minutes, train shall be stopped and caution order has to be issued to proceed with a speed not exceeding **__40__ kmph_____**
81. Pushing back should be done only with the permission of **__SM of rear station_____**
82. When a whole train is shunted across the main line to other lines at any station, shunting must be supervised only by **__SM_____**
- 83.** The whistle code to indicate fouling mark not cleared-- **three long**
84. Even though all signals at a station are semaphore, the one signal which can be provided in colour light under approved special instructions is **_Distant _____**
85. Whistle code to alert SM to exchange all-right signal is **___0 0_____**
86. Block ticket is prepared inform **___T/J.602_____**
87. A Railway servant directly connected with train passing duties shall not use alcoholic drinks within **_8__** hours before the commencement of his duty.
88. During foggy weather, impairing visibility in Absolute Block system, the Loco Pilot shall observe a speed restriction of **__60_____** kmph.
89. When panel is not in use, it should be **__kept in locked position _____**
90. During power failure one generator should not be used for more than **__4__** hours.
91. During power block **_Diesel hauled_____** train may be allowed.
92. Signal warning board is located at **__1400 M_____** distance before stop signal.
93. O.D.C may be attached to a goods train with the prior approval of **___COM_____**
94. Speed of 'C' class ODC on BG shall not exceed **_25_____** kmph.
95. Whenever points/signals are disconnected by S&T Dept. , SM shall in form Cabin man/lever man under exchange of **___PN_____**

96. The percentage of effective brake power for freight trains at en route is **not specified**_____
97. ART shall be ready within **30** minutes by day and **45** minutes by night.
98. Accident siren four long, one short indicates **out stn Accident M/L blocked ART +MRT required**__
99. If a wagon escapes into the Block Section, a relief engine shall be sent only after a lapse of more than **30** minutes and running time of the slowest speed goods train.
100. Bell beats for line clear is **00** beats.
101. Incoming and outgoing bell beats will produce **clock wise** deflection in the
102. Galvanometer when both stations block instruments are in line closed position.
103. The Station Master who grants line clear shall remain on duty till the train has arrived
and the **0000** signal is given and acknowledged.
104. The Station Master taking over charge shall test the block instruments and make a record of the result then and there in the **TSR**_____.
105. In an accident where the damage to railway property exceeds **Rs.2 crores**__, it is treated as serious accident
106. When a colour light distant signal is combined with a gate stop signal protecting a level crossing, it displays **red** light in "ON" position.
107. Normal authority to proceed for the Loco Pilot of a train on single line in tokenless territory is **taking off LSS**_____
108. In double line section where an I.B.H is at 'ON' and telephone fails, the Loco Pilot after stopping for 5 minutes shall proceed with a speed of **15/8** kmph.
109. Automatic stop signal is distinguished by **A marker board**_____
110. Whenever a train is stopped on a gradient for any reason, it is essential to apply the
A9,SA9
111. When any light engine is despatched for opening of communications, caution order shall be issued restricting the speed to **15/10 kmph**_____
112. When the Loco Pilot observes any flasher light in the block section, he must reduce the speed to **20kmph** when view is clear and **10kmph** when view is not clear after putting ON and OFF three times the flasher light provided on his engine and render help if needed.
113. The Loco Pilot must be given **T.512** authority to start a train at a station having common starter in addition to ATP.
114. Speed of a train while pushing back shall not exceed **25** Kmph when the Guard is
Travelling in leading vehicle and **8** Kmph when not travelling in leading vehicle.
115. In EMU/DMU, the bell code signal O pause O indicates **zone of SR over**_____.

116. Fixed signals out of use shall be distinguished by keeping **Cross bar**_____.
117. In case the IBS, which is interlocked with L.C. Gate, becomes defective, SM shall treat gate as **N /I Gate** & **exchange PN with gateman**
118. Restrictions, as a temporary measure imposed, are intimated to the Guards and Loco
Pilots through **Caution Order**_____
119. When all communications failed in Automatic system on double line and trains are Worked on time interval basis, the time interval shall be **15mts or b/section running time _which ever is more**_____
120. During TSL working on double line in Absolute Block, speed of second and subsequent
Trains shall be **Normal speed**_____
121. A blank signal under complete power off is to be treated as **defective** signal_____
122. The amount of air pressure required in engine of a super fast express train in FP is **6 kg/cm²**_____
123. While at a station, the Loco Pilot is to obey **SM**_____instructions.
124. When the Loco Pilot of an electric loco is not in leading cabin and working from trailing cab, the speed is restricted to **15 kmph**_____
125. Whenever a signal is flickering or bobbing and no aspect is steady for 60seconds, the
Loco Pilot shall treat the signal as **defective**_____.
126. Introduction of Panel interlocking/RRI shall be carried out only under **NI working**_____
127. Fresh BPC is required when attaching or detaching of more than **4** 8 wheeler units take place.
128. Authority for the Light Engine to open communication is **T//B 602**_____.
129. The authority for shunting between LSS and opposing FSS on single line token section
Is **T.806**_____
130. During total interruption of communications when train is detained at FSS for more than **10** minutes, the Loco Pilot must send the Assistant Loco Pilot to the station.
131. The Loco Pilot working in ghat section are to be given **6** LR trips.
132. Train Intact Register is in the form number **T.1410**_____
133. Vehicles shall not be detached from a material train in mid-section on a gradient of
1 in 100 or steeper.
134. Accident siren three long, one short indicates **out stn Accident M/L free, ART +MRT required**_____

135. "Train entering block section without authority to proceed" is an **indicative** accident.
136. Neutral section is located between two consecutive **sub stations**
137. Speed of the train shall not be less than **30** kmph while passing through a neutral section.
138. EMU/DMU bell code for zone of speed restriction over, Resume prescribed speed "is **0 pause 0**
139. At every **900** metres, there is an emergency telephone socket provision in OHE area.
140. Caution indicator on BG is located at a distance of **1200** metres, before obstruction.
141. Dead engine shall not be attached to **Rajadhani, shatabdi, duranto** trains.
142. The air pressure to be maintained in the engine while clearing a train of 56 BOX N is **5kg/cm²**
143. Special instructions are issued by **authorised officer**
144. Route indicators are treated as **stop signals**
145. BSLB is provided on double line section, in **MAS** signalling territory.
146. Under no circumstances should a train be **backed** over trailed through points.
147. Provision of warning board is dispensed with, **where double distant** signals are provided.
148. Only **one** damaged vehicle(s) shall be attached behind rear brake van of goods Train.
149. The interval from the time the engine is detached from the train outside station limits and it is again attached to a train carrying passenger shall not exceed **45 minutes**.
150. Loco Pilots and Guards of trains come to know about the class of each station through **WTT**
151. Written authority to receive a train to an obstructed line is **T.509**
152. While performing shunting on passenger carrying trains, shunting engine shall first Come to a halt at **20** metres from the train.
153. **water** shall not be used for extinguishing fire on electrical equipments.
154. Speed of the light engine entering into a block section on block ticket is restricted to **15/8 kmph**
155. When the train is running without Guard/Brake van the SM shall close the block section in rear where BPAC is not available after **receiving PN from Points man/PN in train intact register**

156. Vulnerable locations provided with automatic danger level indicators will be notified in the WTT
157. Authority to send a light engine on to an occupied block section is T/A.602
158. Authority for the trains passing over the temporary single line working is T/D602
159. The empty/loaded vice-operating handle shall be kept in empty position when the wagon is empty and also when gross load does not exceed 42.5 tones.
160. The distributor valve isolation cock handle in vertical position indicates that the Distributor valve is in working position.
161. Colour light distant signal is identified by P marker.
162. Gate signal in automatic block territory shows illuminated A marker light when gate is closed.
163. On double line, the authority to perform shunting beyond BSLB is T.806+PN
164. In the case of formations tested by vacuum exhaustor/compressor, the time taken for Starting the trains after engine is attached shall not exceed 20 minutes.
165. Derailment is an example of consequential train accident.
166. Whenever a stabled load is cleared from non-TXR point GLP check is to be conducted.
167. In a goods train the BP pressure in loco/BV shall be 5 Kg/cm.² 4.8 Kg/cm.² up to 56 wagons
168. When shunting permitted indicator is defective, the Authority given to the Loco Pilot is T.369(3b)+PHS
169. Reduction of BP Pressure causes application of brake in the train formation.
170. COCs of all vehicles shall be kept in Open position except the front side Of loco and rear side of last vehicle before starting the train..
171. Target time for turning out MRT is 15/20 mts for direct/indirect dispatch.
172. Mock drills for ART/MRT shall be conducted once in 3 months
173. The mark at which the infringement of fixed standard dimensions occurs, where two lines cross or join one another is called Fouling Mark
174. Whenever 'healthy section' is isolated and re-energised, the first train to enter Block section shall observe a maximum speed of 60 kmph by day and 30 kmph by night.
175. Engine whistle code for alarm chain pulled is 00-
176. Coaches with passengers shall not be moved for shunting purpose without the Personnel orders of SM and also GD of the train concerned.

177. Loco Pilot or Guard observes a signal light is partially burning or not burning brightly enough to give a clear aspect, shall report the same to **SM of next station**_____
178. When wagons are attached at a station, vehicle numbers must be included in the VG by the **station staff**_____
179. **COM**_____ is authorised officer of SCR.
180. The number of dead engines that can be attached to a passenger train is **One**_____
181. On BG a train is protected by keeping as detonators at a distance of not less than **one at 600mts, three at 1200mts 10 mts apart**_____
182. When train is held up at FSS during normal working, protection is necessary when detention exceeds **15mts**_____
183. When two white lights are burning horizontally in position light type shunt signal, the aspect of the signal is **stop**_____
184. Whistle code 000 indicates Guard to **apply brakes**_____
185. Whistle code for protection in rear is **0000**_____
186. Whistle code for train parting is **-0-0**
187. Whistle code for insufficient pressure in engine/ACP is **00-**
188. A position light shunt signal when placed below a stop signal shall display **no** light in 'ON' position.
189. Red target by day and red light by night in the trap indicator indicates that the trap is in **Open** condition
190. The number of hand brakes to be applied before detaching the train engine in block section on a gradient steeper than 1 in 600 is **B/v+All wagons**_____
191. Arrivals and departures of passenger trains at a class D station are as per the instructions given in **WTT**_____
192. Validity of detonators manufactured during 2010 and after is **5 years**_____
193. The securing of vehicles of material train when divided in block section shall be the responsibility of **Gd & PWI**_____
194. **Two** number of coaches is permitted in rear of rear SLR of a passenger carrying trains in case of necessity.(excluding Officers saloon)
195. By postal express, race special and **military special**_, officers saloons shall not be moved.
196. When the engine of a passenger train is detached in block section to report an accident to SM in advance, it shall be re-attached within **45 minutes**_____
197. Guards of trains provided with air-conditioned SLR/LR shall show the all-right signal to the Loco Pilot by **speaking on telephone**_____
198. In case it is necessary to shunt a train from one line to another across the mainline, **SM** will supervise the shunting.
199. The validity of the Competency Certificate issued for guards at Zonal Railway Training Institute, Moula-Ali is **3 years**_____.

200. The danger zone in 25kv are a means the zone lying within **_2 mts_** of any live electrical equipment.
201. The engine whistle code to indicate to raise the pantograph is **two long** _____
202. Loco Pilots and Guards of trains come to know of all temporary speed restrictions through **_Divisional C O_** _____
203. If any railway servant notices that a train has parted, he shall not show **stop hand** _____ signal to the Loco Pilot.
204. Outer, Home and **_LSS_** _____ shall not be taken off for shunting purposes.
205. The knowledge of the staff that is expected to use the detonators should be tested once in **_3 months_** _____ by the Inspecting Official.
206. First aid box of a Guard shall be examined by ADMO once in **_a month_** _____
207. When absolutely necessary the guard shall pull Guard emergency handle slowly and gradually so as to reduce vacuum by **_13 to 18_** _____ cm only.
208. Trucks loaded with girders, machinery, long timbers etc. Shall be inspected by Guard at stopping stations to ensure **_whether load is shifted or fastenings are slacked_** _____
209. If an axle box of a vehicle is found running hot at a station, where the C&W staff are not provided, the vehicle shall be **detached** _____
210. A vehicle involved in an accident shall not be moved from a station where stabled unless permission is obtained from **_DRM_** _____
211. Whenever the automatic vacuum brake is applied, the Guard shall send a special report along with **_CTR_** _____
212. While conducting GDR check the time allotted for checking a formation of 60 units is **_30_** minutes.
213. The brake power of Mail/Express trains shall not be less than **90** _____ percent en-route.
214. The engine whistle code for Guard to come to engine is **two long two short**
215. Averted collision is an example of **_indicative_** _____ accident.
216. The first objective to be achieved in case of an accident is **_save life of passengers_** _____
217. The amount of air pressure required to be registered in the BP gauge of the B/V of a passenger carrying train is **_4.8 kg/cm²_** _____
218. The amount of air pressure required to be registered in the FP gauge of the BV of a passenger carrying train is **_5.8kg/cm²_** _____
219. W.T.T. is published on the orders of **_COM_** _____
220. The restricted speed of a train passing an automatic stop signal at 'ON' is **_10 kmph_** _____
221. The number of trains which can be run on a section in 24 hours is termed as **_section capacity_** _____.
222. In Scotts formula, $C = \frac{1440 \times E}{T + t}$ what is meant by T **_Running time of slowest goods train in critical block section_** _____
223. Section will be considered saturated (related to line capacity) if the number of

- trains run daily are **more than** _____ the charted capacity.
224. The following are some of the methods available for determining the Line capacity. (1) **scott formula** _____ (2) **GIP formula** _____.
225. Names of two coal loading stations in S.C. Railway are **RDM** _____ and **BPA** _____.
226. Names of two cement loading stations are **Malkhaid Road** _____ and **Seram** _____.
227. FOIS means **Freight Operation Information system** _____.
228. ICMS means **Integrated Coaching Management System** _____
- B** _____
229. Formula for calculating wagon turn round is $T = \frac{L+R}{B}$ _____
230. Wagon turn round performance is denoted in-terms of **days** _____.
231. If the number of wagon turn round days is more, the performance is considered to be **declining** _____.
232. SLO means **Specific Loading Order** _____
233. Wagon census is conducted once in a **year** _____
234. The ordering of goods trains depends on the availability of **loads** _____
Locomotive, Path and crew.
235. NR cell means **Not Received cell** _____
236. At Zonal level the management of Passenger Traffic is looked after by **CPTM** _____.
237. Time Tables are issued **every** _____ year.
238. Accidents are classified under **five** _____ heads.
239. Train accidents are divided into **two**, **consequential train accidents** and **other train accidents**
240. An example of breach of block rule is - **train entered into block section w/o ATP**
241. All accidents falling under the purview of section 113 of Railway Act 1989 are termed as **sabotage**
242. A fire accident to a passenger carrying trains comes under class in **consequential train accident** classification.
243. The ADMOs shall check all the First Aid Boxes in their jurisdiction at the Station once in a **month**
244. Chapter VIII of Station Working Rules deals **shunting**
245. The optimum number of trains which can be run on the section economically is known as **economic line capacity** _____
246. In Scott's formula $C = 1440XE$, if T is the running time of the slowest T+t Moving goods Train over a critical block section, and E is the efficiency factor, then $t = \text{Block Operation time}$

247. **Practical line capacity** method is the most practical way of assessing line capacity.

GOODS TRAIN OPERATION.

248. An example of non-pooled wagon is **Departmental wagon**_____

249. At Railway Board, presently the inter-change of wagons are monitored by _____

250. The traffic comes under priority A in priority schedule is **MIL Rail traffic** _____

251. The speed of the goods train carrying C class ODC shall not exceed **25** KMPH

252. 284. CONCOR means **container corporation** _____

253. IRCTCL means **Indian Railways Catering & tourism Corporation Ltd** _____

254. Roll on-Roll off concept was first introduced in **KRCL** _____

255. Manuguru is known mainly for **coal** loading.

256. Ramagundam is known mainly for **Coal** loading.

257. While stabling goods train having BOX 'N' / BCN / BRH, etc., minimum no. of vehicles hand brake to be applied from in addition to hand brakes of B/V are **six vehicles of on either side of load**_____

258. The management of Freight Operation at Zonal Headquarters is looked after by **CFTM**_____

259. Stock reports are daily repeated at **20.00 hours**_____

260. **Non pooled** wagons may be loaded to other Railways but the Railways receiving them should return (load/empty) wagons to the owning railway.

PASSENGER TRAIN OPERATION.

261. Primary train examination is generally conducted at **pit line**_____

262. The number of berths available in WGSCN is **72**_____

263. Working time tables are issued by **COM**_____

264. ZRUCC means **Zonal Railway Users consultative committee**_____

265. Zonal Time table meeting is organized by **CPTM**_____

266. For a special coach tour upto seven days, Registration fee cum security deposit is **Rs.50,000/-**_____

OPERATING CONTROL.

268. The Divisional Control Office is under the Administrative control of **Sr DOM**_____

269. The standard time signal is given daily at **16.00** hours by Section Controller.

270. The right time start of a goods train is **Ready**_____

271. All defects in OHE are to be reported to **TPC**

272. Power block is given by **TPC**_____

273. Auxiliary paths for movement of trains are suitable for **Goods** trains.

274. In a control chart, the station names are printed **vertically in Y-axis** _____

275. In a control chart the horizontal row indicates time
276. Weather warning messages are issued by metrological department
277. Bans are imposed by state/Central Govt
278. Restrictions are imposed by Railways
- 279. MARSHALLING YARDS.**
280. If the holding of wagons in a yard is more than the working capacity, it leads to yard congestion
281. The functions of a marshalling yards are reception of train, sorting, form through trains and despatching
282. Receiving more trains and despatching less leads to yard congestion

STATISTICS.

283. Operating ratio **total expenditures** /Total earnings
284. If the working expenses are increased and total earnings are decreased, operating Ratio performance becomes poor
285. The operating ratio (latest) of the Indian Railways is _____
286. The lesser the operating ratio greater is the performance.
287. Wagon KM per wagon day indicates the efficiency of wagon utilisation.
288. The net Tonne KM per wagon day efficiency of wagon utilisation
289. Average speed of a goods train = Total Train KM/Total train Engine hour
290. An example of Derived unit is wagon KM per wagon Day
291. Engine KM per engine day online gives efficiency of engine utilisation.
292. The net Tonne KM per train engine hour= Efficiency of engine utilisation

STATION WORKING RULES.

293. SWR contains 12 chapters and 7 appendices.
294. SWR copies in electrified are as are jointly signed by SrDOM &Sr DEE(TRD)
295. Any modification in SWR is issued in the form of paper sheet
296. The SWR shall be reviewed once in 5 years or 5 amendment slips which ever comes first
297. Assurance register for SW Rare to be signed by staff whenever newly joined
298. L.C. gate working is given in the A appendix of SWR.

INSPECTION'S.

299. An ideal time for surprise inspection is 00.00 to 04. 00
300. Regular inspection are to be conducted once Quaterly
301. An example of non-detailed inspection is surprise inspection

302. Different types of Inspections are Regular, casual, Surprise , L.C. gate, foot-plate inspections.
303. Approved special instructions are issued by CRS
304. Office of the Chief Commissioner of Railway Safety is located at LKO
305. Statutory enquiry has to be commenced by CRS within D_+3_ days of an Occurrence of a passenger train accident.
306. Section 113 _____ sub-section(2) stipulates an obligation on the Railway Administration to give a notice of accident to CRS.
307. CRS will submit is detailed report to CCRS and other authorities in D+ _60_____ days.
308. At Railway Board, adviser/safety is the head of the Safety organisation.
309. At Zonal level, CSO is the head of the Safety organisation.
310. General Rules are issued by Rly Board
311. TMS means terminal management system
312. An ONLINE REAL TIME system based on freight trains absolute current state of art Technology and efficient communication system is FOIS
313. Running more number of trains and increasing load per train increases through put
314. Average speed of a goods train in Indian Railway approximately is 25kmph
315. The formula for calculating the average speed of a goods train is **total train KM/total train Engine Hour**

MULTI CHOICE

1. The speed restriction that has to be observed by trains when head light of engine fails [c]
[a] 50kmph [b] 40kmph [c] 40kmph or any severest SR in the section [d] 45kmph
2. Breach of block rules is [d]
[a] train enters on wrong line [b] train enters catch siding ,slip siding or sand hump
[c] train enters block section with improper authority [d] all of these
3. The circular notice shall be valid for a period of [c]
[a] six month [b] two months [c] three months [d] one month
4. Slip coach, anti- telescopic ,may be attached as [a]
[a] in rear as last vehicle [b] centre of the train [c] should be marshalled inside of the engine
[d] should be marshalled after two anti telescopic
- 5 .Number of guard wagons required between one dead engine and train engine on BG. [e]
[a] four [b] six [c] eight [d] three [e] nil
6. Signal warning board in electrified/non-electrified section is provided in rear of FSS [d]
[a]1700metres [b]1000metres [c]2000metres
[d]1400metres
7. Wind velocity considered dangerous is [b]

39. After the arrival of the train which has pushed back to the station, the switch which is to be used in the handle type token less block instrument is [d]

- [a]S1 [b]shunt key [c]catch siding key [d]S2

40. Taking out of one of the following key will prevent the station master at other end from obtaining line clear in push button type block instrument [d]

- [a]block instrument key [b]slip siding key
[c]catch siding key [d] Shunt key

41. At an intermediate station where running time of run through train is less than seven minutes, is line clear to be asked [c]

[a] after sighting the train

[b]after granting line clear to rear station

[c]immediately after getting train entering Block Section Signal.

[d]5minutesbeforethescheduledtime

42. When ever motor trolley/ lorry is to be sent on Block protection on double line ,the double line block instrument needs to be turned to [c]

[a]line clear position [b]line closed position [c]train online position [d]suspend block instrument

43. The bell code for vehicle running away in wrong direction on double line is [b]

[a]6 pause3 [b]6pause4 [c]6pause5 [d]6pause6

44. Time failure is defined as [a]

[a]net delay of one hour or more due to crew mismanagement

[b]net delay of one hour or more due to engine trouble

[c]net delay of one hour or more due to train stalling

[d]net delay of one hour or more due to divided train working

[e]all of these

45. When water over flows above the rails [c]

[a]a train shall not be allowed

[b]train must stop and proceed after the velocity of the water is reduced.

[c]train must stop and be piloted by the PWI.

[d]train must stop and be piloted by gang man

46. Serious accident means , an occurrence which results in [d]

[a]loss of human life

[b]grievous hurt

[c]damage to railway property for Rs.2crores or more

[d]all the above

47. First aid boxes of Station shall be checked by the respective ADMOs once in [b]

[a] 15days

[b] a month

[c]3months

[d]every year

48. Joint inspection of medical relief van by DMO,DSO, DME and DEE will be conducted once in [c]

[a]6months

[b]every month

[c]three months

[d]none of these

49. Outside the station section, when the distance between obstruction and a train having come to stop is less than 400 metres, it is treated as [d]

[a]serious accident [b]Breach of block rules [c]collision [d]averted collision

50. Medical relief train is to be turned out within 15 minutes from stations [a]

[a]having direct despatch facilities [b]having indirect despatch facilities
[c]having no MRT. [d]none of these

51. Medical relief trains shall be despatched to accident spot from stations having indirect despatch facilities within [c]

[a]30 minutes [b]45 minutes [c]20minutes [d]15minutes

52. Total number of weather warning zone in South Central Railway is [c]

[a] 5 [b]6 [c]7 [d]8

53. Colour of point button in Siemens Panel is [b]

[a]black [b]blue [c]grey [d]yellow

54. When a train runs through without headlight and marker light, the SM shall give the bell code sign [a]

[a]six-pause one to the station in advance [b]six- pause one to the station in rear
[c]six-pause three to the station in advance [d]six-beats to the station in advanc

55. When the SM observes a train running through the station without tail lamp/ tail board, he shall (b)

[a] give six-pause three to the station in advance
[b]give six pause three to the station in rear, six pause two to the station in advance
[c]give six pause two to the station in rear, six pause three to the station in advance
[d]none of these

56. On double line section, during total interruption of communications [a]

[a]direction of traffic shall remain as it is [b]direction of traffic shall be

Established each time

[c]direction of traffic will change [d]none of these

57. S.M. shall test the SGE block instrument by [c]

[a]obtaining line clear [b]giving 16 bell signals
[c]reverse the LSS lever/knob without obtaining line clear
[d]turn the operating handle from TOL to line closed.

58. Before taking charge, SM should verify the counter numbers on the panel with [b]

[a]concerned register [b]station diary [c]S&T failure register [d]none of these

59. Head lights to be dimmed when the train is [c]

- [a]in motion [b]passing through station
[c]waiting at station [d]held up at FSS.
60. When a major work like re-girdering is in progress, a speed restriction of ____ shall be observed on the adjacent line in the zone of obstruction [d]
[a]25kmph [b]40kmph [c]15kmph [d]50kmph
61. Guard of trains provided with air conditioned SLR shall show all right signal to station staff by [b]
[a]waving green flag/green light [b]switching ON the flickering tail light
[c]holding green flag/waving green light [d]none of these
62. Authority to enter obstructed/occupied block section in absolute block system is [a]
[a]T/A602 [b]T/B602 [c]T/C602 [d]T/D602
63. Maximum speed of the relief engine proceeding on T/A602 on double line shall be [a]
[a]15/10kmph [b]25/10kmph [c]25/8kmph [d]15kmph
64. Authority (form No.) to be given to Driver of trains during TSL working is [d]
[a]T/A602 [b]T/B602 [c]T/C602 [d]T/D602
65. Speed of the first train during temporary single line working is restricted to [a]
[a]25 kmph [b]booked speed [c]15 kmph [d]none of these
66. In the case of express trains a maximum of ____ coaches (other than an officers carriage) may be attached in rear of the rear brake-van [SLR]. [a]
[a]2 [b]3 [c]1 [d]4
67. The following signals shall not be taken OFF for shunting purpose [c]
[a]outer, starter [b]home, shunt signal
[c]outer, home, LSS [d]outer, home, shunt signal
68. When healthy section is temporarily isolated and re-energised, the SM shall issue caution order to the Loco Pilot of first train to restrict the speed to [d]
[a]10kmph [b]25/10kmph [c]35/20kmph [d]60/30kmph
69. While shunting wagons loaded with petrol, kerosene, the speed shall be restricted to [b]
[a]15kmph [b]8kmph [c]2-3kmph [d]none of these
70. Twin pipe system is provided in [b]
[a]goods trains [b]passenger carrying trains [c]motor trolley [d]none of these
71. A single four wheeler vehicle must not be marshalled between [a]
[a]two bogies/8 wheelers [b]two4wheelers
[c]one bogie and one 4wheeler [d]none of these
72. Isolation is compulsory when speed of run through trains exceed [a]
[a]50kmph [b]75kmph [c]15kmph [d]25kmph

73. The following gradient shall be considered as steeper gradient for the purpose of shunting rules, if the wagons are fitted with roller bearing [d]

- [a] 1 in 260 or steeper
- [b] 1 in 100 or steeper
- [c] 1 in 600 or steeper
- [d] 1 in 400 or steeper

74. When a train is parted on run, the Loco Pilot should stop the first portion [d]

- (a) Immediately
- (b) on reaching next station
- (c) on getting Guard's signal
- (d) only after ensuring that rear portion has come to stop

75. When a dead body is found on the track and no responsible staff is found, the Loco Pilot / Asst. Loco Pilot to [d]

- [a] go to the next station and inform
- [b] inform the gate man or gang man or PWI
- [c] carry it to nearest hospital
- [d] carry it to the nearest gate or next station

76. If the light is extinguished in a distant signal, the Loco Pilot should stop and observe [d]

- [a] for 5 minutes if the lights will burn
- [b] Guard's signal
- [c] head light or marker light
- [d] 'P' marker board

77. Accident siren code four long and one short indicates [a]

- [a] accident at out station, main line blocked and ART along with MRT to be turned out.
- [b] accident at out station, mainline free and ART along with MRT to be turned out.
- [c] accident at out station, mainline blocked and ART to be turned out.
- [d] None of these.

78. When Loco Pilots of trains are pre-warned of a defective approach signals at a station, they can enter such station in one of the following manner [b]

- [a] stop at the FSS and proceed after receiving T/369(3b)
- [b] proceed at a speed of 15kmph since already pre-warned through T/369(1) duly observing PHS
- [c] observe PHS at the foot of the signal at normal speed
- [d] T-369(3b) + PHS at the foot of the signal and proceed at 15kmph

79. The Loco Pilots of all trains pre-warned about reception on to an obstructed line may enter such line in the following manner. [d]

- [a] Calling On signal
- [b] Signal Post Telephone
- [c] T/509
- [d] any one of the above.

80. When a train stops due to an accident in Automatic system, Loco Pilot shall protect adjacent line by placing detonators as follows apart from lighting fuse [c]

- [a] one at 90 metres and two 10 metres apart at 180 metres
- [b] one at 250 metres and two 10 metres apart at 500 metres
- [c] one at 400/600 metres and three 10 metres apart at 800/1200 metres on MG/BG
- [d] none of these

81. During prolonged failure of signals and communication is available on D/L Automatic Block System the authority given to Loco Pilot is [b]

- [a] T/D 602
- [b] T/D 912
- [c] T/C 912
- [d] none of these

82. While the train is in motion, engine crew shall watch the OHE and report any defect noticed to the [c]

- [a]TLC [b]SM [c]TPC/SCOR [d]none of these

83. When the Distant is at ON, it indicates to Loco Pilot that [b]

- [a]the train must be stopped at the distant
[b]proceed, be prepared to stop at next stop signal
[c]the train is being admitted on loop
[d]the next block section is not clear

84. When IB signal is at ON, Loco Pilot shall stop and contact [b]

- [a]SM in advance.
[b]SM in rear.
[c]SCOR/TPC
[d]none of these

85. When flasher light is switched on it focuses [d]

- [a] white light [b] light red colour
[c] white light flickering [d] amber colour light with on and off signs

86. On double line, the authority to perform shunting beyond LSS is [d]

- [a] T/806 +PN [b] taking off shunt signal +T/806
[c] LSS lever key + T/806 [d] any one of the above

87. Engine whistle code for defective signal is- [c]

- [a] continuous long whistle. [b] two short and one long.
[c] one long and two short [d] one long and one short.

88. On double line, the authority to perform shunting beyond BSLB/outer most facing point is [a]

- [a] T/806+PN [b] shunt signal off
[c] LSS lever key [d] none of these

89. The 'P' marker can be dispensed with when a colour light distant signal is placed [b]

- [a] in Automatic territory [b] in combination with LSS
[c] in Absolute Block system [d] none of these

90. In multiple aspect colour light stop signals, caution aspect is displayed by [c]

- (a) one red light (b) two yellow lights
(c) one yellow light (d) none of these

91. Whistle code--00 indicates Guard to [a]

- (a) come to engine (b) release brakes
(c) apply brakes (d) none of these

92. Whistle code for train parting is [d]
 (a)0- (b)0-- (c)0-0 (d)-0-0
93. Whistle code for insufficient pressure in engine is [b]
 (a)0-0 (b)00- (c)-0- (d)-00
94. When IBH is at 'ON' and signal post telephone is defective, Loco Pilot after stopping for 5 minutes shall proceed at [d]
 (a) booked speed
 (b)15kmph
 (c)10kmph
 (d)15kmph when view is clear and 8kmph when view is not clear
95. When engine explodes 3 detonators, Loco Pilot shall proceed cautiously up to [b]
 [a]1km [b]1.5km
 [c]2km [d]2.5km
96. When Loco Pilot observes red flash in automatic danger level indicator, he shall stop his train at a distance of ____ from the indicator. [a]
 [a]100metres [b]1200metres
 [c]1300metres [d]800metres
97. For attaching O.D.C. wagons, sanction of ____ is necessary. [d]
 [a]D.O.M. [b]D.R.M.
 [c]G.M. [d]C.O.M.
98. During TIC on single, when line clear is obtained for more than one train, the speed of [c]
 The second and subsequent trains is restricted to
 [a]booked speed [b]60/30kmph
 [c] 25/10kmph [d]15/.10kmph.
99. The maximum speed of the goods trains when C class ODC is attached on BG is [a]
 [a]25kmph [b]15kmph
 [c]40kmph [d]booked speed
100. When engine pushing is permitted, reception shall be made on single line by [a]
 [a]taking off signals [b]piloting
 [c]hand signals [d]none of these
101. The following gradient shall be considered as steep gradient for the purpose of shunting rules, if the wagons are fitted with roller bearing. [d]
 [a]1in260 [b]1in100
 [c]1in600 [d]1in400
102. Generally the speed during shunting operations shall not exceed [b]

- [a]10kmph [b]15kmph
[c]8kmph [d]5kmph

103. In automatic block section, during TSL working, the authority for the second and subsequent trains proceeding on right line is [c]

- [a]T/A912 [b]T/B912
[c] signal aspects [d]T/D912

104. After passing an automatic stop signal at ON, the Loco Pilot shall observe [d]

- [a]25/8kmph [b]25kmph
[c]10/8kmph [d]10kmph

105. While shunting of wagons loaded with petrol, kerosene oil the speed is restricted to [b]

- [a]15kmph [b]8kmph
[c]2-3kmph [d] none of these

106. When train is held up in the mid-section for want of OHE power supply, on restoration of supply after 5 minutes Loco Pilot shall proceed at a restricted speed of _____ up to next station [b]

- [a]10kmph [b]60/30kmph
[c]25/10kmph [d] none of these

107. Signal Sighting Committee inspect the location and visibility of signals once in [b]

- [a]2months [b]3months
[c]4months [d]6months

108. Healthy section isolated and re-energised, the speed of the first train entering into healthy section is restricted to [b]

- [a]10kmph [b]60/30kmph
[c]35/20kmph [d] none of these

109. Warning boards to indicate neutral section are located at _____ [a]

- [a]250/500metres [b]800/1200metres 3
[c]500/1000metres [d]1400/1700metres

110. Speed of trains proceeding on T/C602 is restricted to [b]

- [a]25/8kmph [b]25/10kmph
[c]15/8kmph [d]15/10kmph

111. In emergency, the Asst. L P is authorised to drive the trains at a speed not exceeding [c]

- [a]15kmph [b]25kmph
[c]40kmph [d] booked speed

112. When leading cab apparatus become defective, Asst.Driver is driving from trailing cab, the speed is restricted to [b]

- [a]15kmph [b]40kmph
[c]25kmph [d]8kmph

113. When water over tops the rail level and PWI is piloting the train, Loco Pilot shall proceed at a speed not exceeding [d]
 [a]25kmph [b]15kmph
 [c]8kmph [d]none of these
114. In automatic block territory when gate signal is at ON and A marker is extinguished, Loco Pilot shall follow the rules for [c]
 [a] passing automatic signal at ON [b]passing gate signal at ON
 [c] [b]& [a] [d] none of these
115. Signal Sighting Committee consists of [a]
 [a]TI,LI,SI [b]LI,SI,PWI
 [c]TI,LI,PWI [d]PWI,TI,SI
116. The BPC must be possessed by the Loco Pilot till [a]
 [a] the train completes its journey [b] the train reaches next station
 [c] the train passes 4500 kms [d] none of these
117. The Loco Pilot has to pay special attention after passing LC gate to see whether [b]
 [a]all right signals are being exchanged [b]any danger hand signal is being exhibited
 [c]gate is open or closed [d]noneofthese
118. When a train is running without brake van encounters trouble en-route, the_____should check the complete train. [b]
 [a]Loco Pilot [b]Asst .Loco Pilot and Guard
 [c]Asst. Loco Pilot only [d] Guard only
119. Loco Pilot and Guard, in the case of an accident, shall fill up the form No [a]
 [a]ACC-3 [b]ACC-4
 [c]ACC-5 [d]ACC-6
120. No.of damaged vehicles permitted in rear of rear brake-van during day is [a]
 [a]one [b]two
 [c] two bogies or equivalent [d]none of these
121. Complete arrival of first portion of a train at the station during divided train working is ensured By [c]
 [a] a tail lamp/tail board on last vehicle
 [b]a red flag tied to last vehicle
 [c]verifying the number as mentioned in T/609
 [d] certification by Loco Pilot.
122. At a station isolation is necessary where the speed of run through trains exceed [c]
 [a]15kmph [b]25kmph
 [c]50kmph [d]75kmph

123. Maximum number of vehicles containing explosives that can be attached to a mixed train is [b]
- [a]one [b]three
[c]five [d] not permitted
124. Where double heading is permitted, a dead engine shall be marshalled as [b]
- [a] 6th vehicle from train engine [b]next to train engine
[c]7th vehicle from train engine [d] inside BV
125. When train is stopped in Automatic Block Signalling section on BG and adjacent line is fouling, protection for adjacent line shall be done by placing detonators [c].
- [a] one at 90 and two at 180 metres, 10 metres apart
[b]one at 400 and two at 800 metres ,10 metres apart
[c]one at 600 and three at 1200 metres, 10 metres apart
[d]one at 90 and three at 180 metres,10metres apart
126. Detailed instructions regarding working of shunting permitted indicator will be available in[d]
- [a]general rules [b]subsidiary rules
[c]appendices to G&SR [d]station working rules
127. Speed of train while entering terminal goods yards is restricted to [d]
- [a]5kmph [b]8kmph
[c]10kmph [d]15kmph
128. Speed of train over 1 in 8 turn out (curved switch on 52/60KG rails of PSC sleepers) shall not Exceed [d]
- [a]8kmph [b]25kmph
[c]10kmph [d] 15kmph
129. In an emergency, a material train may be ordered by [c]
- [a]Sr.DOM [b]CSO
[c]SM [d]DEN
130. Anemometer is provided for measuring [a]
- [a]wind velocity [b]rainfall
[c]temperature [d]water depth
131. Presence of outlying siding points is indicated by ___marker [a]
- [a]S [b]O/S
[c]O/L [d]O
132. The authority to pass defective home signal of a class 'C' station on double line is [d]
- [a]T/369(3b) [b]C.O.+PHS
[c]Taking OFF calling ON signal [d] PLCT
[c]12vehicles [d]18vehicles
133. When a train is parted on run, Loco Pilot should stop the first portion [d]

- [a]immediately
- [b]on reaching next station
- [c]on getting Guard' s danger signal
- [d]after ensuring that rear portion has come to a stop

134. Normal authority to proceed on double line is [a] .

- [a] OFF position of LSS [b]T/369(3b)
- [c]T/B1425/T/C1425 [d]T/511

135. When the IB signal provided on double line section fails, the authority to Proceed shall be [d]

- [a]PLCT [b]T/369(3b) [c]T/511 [d]PLCT+T/369(3b)

136. The calling on signal shall display _____ light in ON position during night [d]

- [a]red [b]yellow [c]white [d]none of these

137. During thick, foggy, & tempestuous weather, impairing visibility detonators shall be placed at a distance of 270 metres [a]

- [a]in rear of FSS [b] in advance of FSS
- [c] in rear of Distant signal [d]in rear of outer most signal

138. In EMU bell code to be given when Driver exceeds prescribed speed [c]

- [a]0pause0 [b]00pause00
- [c]000pause000 [d]none of these

139. In automatic Block system, when all signals failed and communications are not available, trains are worked on [a]

- [a]T/B-912 [b]T/D-912 [c]T/C912 [d]none of these

140. The target time for turning out Tower wagon during day/night time is [a]

- [a]30/45minutes. [b]15/30minutes.
- [c]15/45minutes [d]None of these.

141. When a motor trolley is sent for opening of communications, it must be accompanied by [c]

- [a]SM on duty [b]Guard on duty
- [c]SM off duty or Guard [d]none of these

142. After opening of communications, when light engine is returning with or without a train attached to it, authority to proceed for Loco Pilot shall be [c]

- [a]T369(3b) [b]PLCT [c]CLCT [d]T/A602

143. Maximum number of wagons loaded with explosives allowed by a goods train. [d]

- [a]three [b]five
- [c]seven [d]Ten

144. Maximum number of wagons containing explosives allowed by a parcel train. [b]

- [a] one [b]three

- [c]five [d] none above
145. Between wagons containing explosives and a passenger carriage, there shall be a minimum of _____ guard wagons. [a]
- [a]three [b]four
[c]five [d]six
146. Only ___ persons other than Loco Pilot/Guard are authorized to travel in the cabs of EMU/MEMU [b]
- [a]one [b]two [c]three [d]five
147. V.Gs of Mail/Express shall be sent [c]
- [a]weekly [b]bi-weekly [c]daily [d]monthly
148. Though the prescribed tonnage of a train is exceeding, _____ is permitted in excs [a]
- [a]one Officer's saloon [b]one slip coach
[c]two coaches [d]none of these
149. When shunt signal is defective, in addition to clamping facing points and locking them, Loco Pilot should be given _____ [b]
- [a]T/369(1) [b]T/369(3b+PHS
[c]T/511 [d]T/806
150. At night when a train is waiting at a station to give precedence in the same direction, Guard of train shall change side light adjacent to the line on which following train is admitted to show [b]
- [a] red to wards rear and white towards engine
[b]white to wards rear and red towards engine
[c]white both side
[d]none of these
151. ATP for material trains when it is required to come back during Line block. [a]
- [a]T/462 [b]T/A462 [c]T/465
[d]T/A465
152. The whistle code given by the Loco Pilot to call for Guards signal is [b]
- [a]000 [b]00 [c]0 [d]--00
153. 000 whistle code indicates [d]
- [a]Train parted [b]alarm chain pulled [c]token missed [d]guard to apply brakes
154. The speed of a train carrying a C class ODC during night time on BG is [a]
- [a]25kmph [b]not permitted [c]15kmph [d]10kmph
154. After stopping at stop indicator, the Loco Pilot shall proceed cautiously at a speed not exceeding _____ until train cleared the restricted spot. [b]
- [a] 10kmph [b]8kmph [c]15kmph [d]25kmp
155. The rate of ex-gratia payment in case of grievously injured passengers, who are hospitalised up to 30days shall be [a]
- [a]Rs.25000/ [b]Rs.15000/ [c]50000/ [d]None.

156. The interval between successive trains running in automatic block system during prolonged failure of signals and total failure of communications is [b]
 [a]30 minutes [b]15minutes [c]5minutes [d]10minutes
157. Whenever detonators are placed, the person shall stand clear of _____ radius from the detonator. [b]
 [a]30metres [b]45metres [c]100metres [d]50metres
158. When trains are held up at stop signal in Automatic Block system, the inter distance between two trains shall be [c]
 [a] 300metres [b]50metres [c]150metres [d]90metres
159. Whenever a train is held up in block section and the engine is being attended by the Loco Pilot, Guard shall ask for relief engine if putting the engine in working order takes more then [b]
 [a]30minutes [b]5minutes [c]10minutes [d] not to ask relief engine
160. Accident Inquiry Reports with foreign Railway staff responsibility, in the absence of AGM post shall be put up to- [b]
 [a]GM [B]SDGM [c]CSO [d]None.
161. The Guards BV shall be separated by at least ____ while attaching wagons containing explosives [c]
 [a]2 [b]5 [c]3 [d]1
