

**Model Questions of Written Examination for Promotion to the post of  
CLI/DSL in Mech. (P)/HWH.**

1. What is FIBA?  
A) Failure indication Break Application, B) Failure Indication Break Assembly, C) Fire Indicator Break Application, D) Fire Indicator Break Application.
2. When BLENDED BREAK operate?  
A) When SA9 Applied, B) When A9 Applied, C) When Dynamic Applied, D) None of the above.
3. What is Vent Hole in BP& FP angle cock?  
a) Angle cock in Open position, b) Angle cock in close position, c) All Position, d) When Cock not working.
4. Full form of HPLR? A) Helper, B) Help Pilot Load Rear, None of the Above.
5. BL Key Position in WAP Loco? A) in Control Desk, B) In Cab room Control Panel, c) In M/Generator Room, d) Any of the Above.
6. Function of MRCPT connected with? a) MR2, b)MR1, c) Both MR1 &MR2.
7. Bail-off switch use for\_\_\_\_\_. A) Release, B) Quick Release, C) Faster Pumping
8. Position of R1 & R2 in WDG4? A) TCC1, B) TCC 2, C) TCC3, 4) Not in WDG4.
9. Expand the following: 1) RITES - a) Rail India Technical & Economics.2) IRCTC - Indian Railway Catering and Tourism Corporation, 3) CMS -Crew Management System, 4) RDSO- Research Design and Standards Organization, 5) CORE - Central Organization for Railway Electrification, 6) FOIS- Freight Operations Information System, 7) COIS - Coaching Operations Information System 8) IVRS-Interim Voice Response System, 9) CRIS-Center For Railway Information Systems, 10) IRISSET - Indian Railway Institute of Signal and Telecommunication,58 11) ROAMS- Rolling Asset Management System
10. Expand the following: 1) BCM-Ballast Cleaning Machine, 2) TTM- Trailing Twelve Months 3) SPART-Self Propelled Accident Relief Train, 4) TRR -Test Readiness Review, 5) TFR- Transnet Freight Rail, 6) TSR-Temporary Speed Restriction, 7) PQRS -Plasser Quick Relating System, 8) BWM-Block Working Manual.
11. What is the minimum Head light Focusing distance required in the locomotives provided with electrical head light? d a) 100 meters b) 1000 meters c) 2000 meters d) 250 meters and above
12. What is the Fuel oil tank capacity in WDP1 locomotive in litres? c a) 4000 b) 5000 c) 3000 c) 2000
13. When OPS drops or LLOB trips, the engine will\_\_\_\_\_. b a) Raise b) Shutdown c) Comes to Idle d) Hunting
14. Expressor lube oil pump is driven by\_\_\_\_\_. b a) Gear b) Chain c) Motor d) Belt
15. The exhaust manifold is connected to \_\_\_\_\_part of the TSC. a a) Gas Inlet Casing b) Intermediate Casing c) Turbine Casing d) Blower Casing

16. One of the following is the equipment in Nose compartment c a) MR1 b) MR2 c) Control air pressure reservoir d) All the above
17. How many Power Contactors are available in WDG4 Locomotive? d a) 7 b) 9 c) 8 d) 0
18. What is the Lube oil capacity (in litres) in WDP1 locomotives? a a) 760 b) 910 c) 1100 d) 1457
19. If white smoke is emitting from exhaust chimney, what could be the reason? a A) Water mixed with fuel oil b) Governor oil mixed with fuel oil c) Lube oil mixed with fuel oil d) None of these
20. What is the effective Rundown test timing (in seconds) of NAPIER Turbo? In seconds c a) 120 to 200 b) 90 to 180 c) 25 to 65 d) 200 to 280.
21. Foot pedal switch is provided for \_\_\_\_\_. Purpose of main generators in locomotive is \_\_\_\_\_ and \_\_\_\_\_.
22. If auxiliary generator fails \_\_\_\_\_ Indication will come and work for \_\_\_\_\_ Hrs and Engine not to be \_\_\_\_\_.
23. PCS will get knocked out by \_\_\_\_\_ and \_\_\_\_\_ valves operated.
24. In one and third (1st & 3rd) transition \_\_\_\_\_ relay will pick up and \_\_\_\_\_ contactors will close.
25. To pick up R1 contactor \_\_\_\_\_ switch to be closed and thereby \_\_\_\_\_ will start working.
26. SAR relay is located in \_\_\_\_\_ type locos and ERR is located in \_\_\_\_\_ type of locos.
27. On run if pinion slips \_\_\_\_\_ relay will operate and if traction motor cable rubbed with loco body \_\_\_\_\_ relay will pick up.
28. On run if anyone traction motor defective \_\_\_\_\_ to be done for normal working and \_\_\_\_\_ should not be used.
29. Alarm gang will operate for \_\_\_\_\_ safety devices operated and buzzer will operate for \_\_\_\_\_ safety device operation.
30. If transition relay (TR) pick up \_\_\_\_\_ contactors will drop and \_\_\_\_\_ contactors will pick up.
31. Expand E.C.C. \_\_\_\_\_. 12. On run if CCE motor fails \_\_\_\_\_ problem will be experienced. 13. On run if \_\_\_\_\_ or \_\_\_\_\_ breaker trips engine will come to idle.
32. Crank shaft to cam shaft speed ratio is –  
a) 0.0008877314814814815, b) 17:77, c) 17:90, d) None of these. **Answer - d**
33. Fuel tank capacity of WDG4 Locomotive is –  
a) 5000 ltrs, b) 6000 ltrs, c) 6500 ltrs, d) None of these. **Answer - b**
34. No. of teeth in No. 2 Idler Gear is –  
a) 58, b) 64, c) 69, d) 79. **Answer - a**
35. Compressor Drive coupling retainer nut is torque at –  
a) 450 ft-lbs, b) 500 ft-lbs, c) 250 ft-lbs, d) 650 ft-lbs. **Answer - b**

36. To operate wiper, air supply is received from –  
a) MR-1 Pressure, b) MR-2 Pressure,  
c) BP Pressure, d) B.C Pressure. **Answer - a**
37. In HHP Locomotive bail of ring is used for –  
a) VCD acknowledgement, b) To release train brake,  
c) To apply train brake, d) None of these. **Answer - a**
38. Presently in HHP Locomotive, which of the following Governor is fitted –  
a) Woodward Governor, b) MCBG,  
c) EH Governor, d) Both Woodward and MCBG. **Answer - d**
39. In HHP Locomotive, EPD is fitted in the –  
a) Right side, Front end of the Engine,  
b) Right side, Rear end of the Engine,  
c) Left side, Front end of the Engine,  
d) None of these. **Answer - c**
40. During EPD Testing (Engine running above 3<sup>rd</sup> Notch), Engine should be shut down in –  
a) 120 second, b) 40 second, c) 35 second, d) Immediately. **Answer - d**
41. The sight glass which is located furthest from engine block is called –  
a) Return sight glass, b) By-pass sight glass,  
c) Empty sight glass, d) None of these. **Answer - b**
42. Flywheel point indicator is fitted on –  
a) Harmonic damper, b) Starter motor bracket,  
c) Main alternator, d) Companion alternator. **Answer - b**
43. In HHP Locomotive Crankshaft to cam shaft speed ratio is –  
a) 1:1, b) 17:77, c) 17:90, d) None of these. **Answer - a**
44. Weight of WDG4 Locomotive is –  
a) 126 T, b) 123 T, c) 121.2 T, d) 117 T. **Answer - a**
45. Piston of HHP Locomotive is made of –  
a) Cast iron with brazed on outer sleeves,  
b) Cast iron alloy with tin plating,  
c) Stainless steel with chrome plated,  
d) Cast iron. **Answer - b**
46. No. 1 compression ring of HHP Piston is made of –  
a) Cast iron with brazed on outer sleeves,  
b) Cast iron alloy with tin plating,  
c) Stainless steel with chrome plated,  
d) Cast iron. **Answer - c**
47. Cylinder head of HHP Locomotive is made of –  
a) Cast iron with brazed on outer sleeves,  
b) Cast iron alloy with tin plating,  
c) Stainless steel with chrome plated,  
d) Cast iron. **Answer - d**
48. Lower liner insert of HHP Locomotive is made of –  
a) Cast iron with brazed on outer sleeves,  
b) Cast iron alloy with tin plating,  
c) Stainless steel with chrome plated,  
d) Cast iron. **Answer - d**
49. How many 10" expansion joint are fitted in HHP Locomotive?  
a) 1, b) 3, c) 4, d) None of these. **Answer - a**
50. HOD operates when –

- a) Cooling water temp rises to 121° - 126° c.  
 b) Lube Oil temp rises to 121°c – 126°c. **Answer - b**  
 c) Fuel Oil temp rises to 121°c - 126°c.  
 d) None of the above.
51. How many dowels are in fork rod and basket assembly?  
 a) 1, b) 2, c) 3, d) 4. **Answer - d**
52. Fork rod power assembly is located in which side of engine?  
 a) Left side, b) Right side, c) Both side, d) None of these. **Answer - a**
53. Blade rod power assembly is located in which side of engine?  
 a) Left side, b) Right side, c) Both side, d) None of these. **Answer - b**
54. What is the pick-up time between one radiator fan to another?  
 a) 10 seconds, b) 20 seconds, c) 30 seconds, d) None of these. **Answer - b**
55. Which one is not required for injector rack setting?  
 a) Concerned power assembly to be kept at TDC.  
 b) Governor rack to be locked at 1". **Answer - a**  
 c) Rack setting tool to be required.  
 d) Rotate injector rack adjusting lock nut clockwise direction to lose it.
56. Which type of water pump is fitted in HHP Locomotive?  
 a) Centrifugal type,  
 b) Reciprocating type, **Answer - a**  
 c) positive displacement type,  
 d) None of these.
57. Oil separator of HHP Locomotive is cleaned in which schedule?  
 a) T-30 & above,  
 b) T-90 & above, **Answer - b**  
 c) T-180 & above,  
 d) T-Yearly & above.
58. How many oil control rings are fitted in the HHP Engine piston?  
 a) 1, b) 2, c) 3, d) 4. **Answer - b**
59. What is the discharge capacity of FPM?  
 a) 5 GPM, b) 7 GPM, c) 10 GPM, d) None of these. **Answer - b**
60. Maximum permissible height of Diesel Locomotive over Mumbai division is –  
 a) 4270 mm, b) 4280 mm, c) 4290mm, d) None of these. **Answer - a**
61. Minimum engine cranking speed needed for starting is –  
 a) 45 – 50 rpm, b) 60 – 75 rpm, c) 75 – 90 rpm, d) 100 – 120 rpm. **Answer - a**
62. Maximum speed of WDP4 Locomotive is –  
 a) 100kmph, b) 105kmph, c) 135kmph, d) 160kmph. **Answer - d**
63. What is the value of backlash between water pump and governor drive gear?  
 a) 0.007" – 0.025",  
 b) 0.008" – 0.016", **Answer - b**  
 c) 0.010" - 0.025",  
 d) 0.006: - 0.018".
64. What is the minimum engine lube oil viscosity (KV) of HHP Locomotive?  
 a) 12.8 cst at 100°c,  
 b) 13.0 cst at 100°c, **Answer - b**  
 c) 18.8 cst at 100°c,  
 d) None of these.
65. TRD is related to –

- a) Lube oil cooler, b) Radiator,  
c) Turbo supercharger, d) Compressor. **Answer - c**
66. What is the value of back lash between auxiliary generator drive gears and cam gear?  
a) 0.007" – 0.025",  
b) 0.006" – 0.016",  
c) 0.010" – 0.025",  
d) 0.006" – 0.018". **Answer - c**
67. Top con-rod bearing shell is changed after –  
a) 2 years, b) 3 years, c) 6 years, d) None of these. **Answer - b**
68. How many 14" expansion joint is fitted in HHP Locomotive?  
a) 1, b) 3, c) 4, d) None of these. **Answer - b**
69. Thrust collar are fitted in –  
a) No. 5 & 6 main bearing,  
b) No. 1 & 9 main bearing,  
c) No. 1 & 10 main bearing,  
d) None. **Answer - a**
70. Turbine inlet scroll is –  
a) Welded assembly made from "chrome – moly" plate.  
b) Forged assembly made from "chrome – moly" plate. **Answer - a**  
c) Welded assembly made from C.R.C.S.  
d) None of the above.
71. In HHP Locomotive Lube Oil level to be checked at –  
a) 72°C temperature,  
b) 52°C temperature, **Answer - a**  
c) 62°C temperature,  
d) None of these.
72. In HHP Locomotive, maximum fuel is injected at –  
a) 9.6° before the TDC,  
b) 0.8° after the TDC, **Answer - a**  
c) 15.8° before the TDC,  
d) 16.6° before TD
73. How many EBT are fitted in HHP Locomotive?  
a) 1, b) 2, c) 3, d) 4. **Answer - a**
74. In HHP Locomotive, compressor overhaul on –  
a) T – 360 schedules,  
b) T – 720 schedules, **Answer - d**
75. How many types of signals available? A)Two, B)Three, C) Four, D)Five
76. How many types of repeating signals available. A)Two, B)Three, C) Four, D)One
77. What are the signals that cannot be used for shunting operation? A)Starter, B) Home, c)Calling On, D) Distant.
78. Form for Relief Loco. -a) T/A-602, b)T/A-409, c) T/806, d) None of above.
79. Who will be in signal sighting committee? A) TI,LI, SI B)WI,SI,FI, C) SM, SI, PWI.
80. what is the periodicity of inspections? A) 3 months, B) 6 months, C) 12 months.
81. Write the duties of loco pilot on seeing a flasher light on adjacent line. A) Stop the Train, B) Overlook, C) Increase train speed

82. Write the duties of loco pilot in case of explosion of a detonator. A) Speed Increase, B) Speed decrease, C) Stop Train Immediately
83. What is Shunting Authority? - a) T/A-409, b)T/806, c)T/369 (3b), d) T/809.
84. By which form a train can be dispatched from an un-signalized line?

### **MULTIPLE CHOICE GR&SR**

85. At Standard-I interlocking station the maximum speed permitted for the train on DL is not more than \_\_\_\_\_ kmph. (A).15 (B).50 (C).75 (D).MPS (B)
86. At Standard-III interlocking station the maximum speed permitted for the train on ML is above \_\_\_\_\_ kmph. (A) 15 (B) 50 (C) 75 (D) MPS (C)
87. The maximum speed permitted on loop line is \_\_\_\_\_ kmph. (A) 15/25 (B) 15/30 (C) 8/10 (D) 10/15 (B)
88. Isolation is necessary where the trains are permitted to go above \_\_\_\_\_ kmph at a station. (A) 15 (B) 50 (C) 75 (D) MPS (B)
89. \_\_\_\_\_ is the best positive method of isolation. (A) Cut Point (B) Catch Siding (C) Slip Siding (D) Sand Hump (D)
90. Point indicator, wherever available shall show \_\_\_\_\_ during day and \_\_\_\_\_ light during night when point is set for Main line. (A) Red Target-Red (B) White Target-White (C) Green Target-Green (D) No Target-Green (B)
91. Point indicator, wherever available shall show \_\_\_\_\_ during day and \_\_\_\_\_ light during night when point is set for Loop line. (A) White Target-White (B) Green Target - Green (C) No Target - White (D) No Target - Green (D)
92. When Trap indicator is provided, it shall show \_\_\_\_\_ during day and \_\_\_\_\_ light during when it is in open position (A) White Disc - White (B) Red Disc - Red (C) No Target - White (D) None of the above(B)
93. Station limits are available between \_\_\_\_\_ signals at a Block Station. (A) Inner Most (B) Outer Most (C) Home (D) LSS (B)
94. At Class „D” station, station limits are available between \_\_\_\_\_. (A) Platform Ends (B) BSLB (C) Fog Signal Posts (D) No Limits (A)
95. On Double line, class „B” station two aspect signaling, station section lies between \_\_\_\_\_ signal to \_\_\_\_\_ signal in either direction. (A) Home - Starter (B) Home - LSS (C) Distant - LSS (D) Distant-Home (B)
96. On Double line class „B” station Multiple Aspect Signaling station section lies between \_\_\_\_\_ to \_\_\_\_\_ signal in either direction. (A) SLB-LSS (B) Home-LSS (C)BSLB-LSS (D) BSLB-HOME (C)

### **GENERAL KNOWLADGE**

97. Full form of PAD and PDD . a) Post Arrival Detention & Pre Departure Detention,

98. Inspection intervals of ART by B.O? A) 03 months, B) 06 months, C) Every Month
99. Inspection intervals of 140T BD Crane by B.O. A) 03 Months, B) 06 months, C) Every Month
100. Inspection intervals of Crew Lobby by B.O? A) 03 Months, B) 06 months, C) Every Month
101. Types of ART? A) "A & B", B) "A, B & C", C) only "A".
102. Inspection intervals of Running Room by B.O? A) 03 Months, B) 06 months, C) Every Month
103. Full form of POM. a) Point of Mount, b) Point of movement, C) Post Operation Minutes.
104. Bahar Line time of SPARV with Double Exit. A) 15 min, B) 20 min, C) 45 min
105. Bahar Line time of ART with Single Exit. A) Day 30 min & Night 45 min., B) Day 20 min & Night 30 min., C) Day 20 min & Night 45 min.
106. Whistle code for Derailment in Main Line without life casualty. A) 01 Long 03 Short, A) 01 Long 04 Short, C) 02 Long 02 Short,
107. Whistle code for Derailment in Main Line with life casualty. A) 01 Long 03 Short, A) 01 Long 04 Short, C) 02 Long 02 Short,

108. भारत सघं की राजभाषा )य ा है ? / What is the Official Language of the Union of India ?

उ: देवनागरी िलिप म0 िहंदी / Hindi in Devnagari Script.

109.2. ससंद म0 सिंवधान का भाग XVII िकस तारीख को पारित हुआ ? / On which date, Part XVII of the Constitution was passed in Parliament ?

उ: 14.09.1949.

110. राजभाषा अधिनयम 1963 कब पारित हुआ ? / When was the Official Languages Act 1963 passed ?

उ: 10.05.1963.

111. राजभाषा अधिनयम 1963 कब संशोधित हुआ ? / When was the Official Languages Act 1963 amended ?

उ: 1967.

112. राजभाषा नियम के अधीन वगैरह तीन क्षेत्रों को क्या कहा जाता है ? / What are all the three regions classified under Official Language Rules ?

उ: 'क', 'ख' व 'ग' क्षेत्र / 'A', 'B' and 'C' Regions.

113. हर साल 'हिंदी दिवस' कब मनाया जाता है ? / When is 'Hindi Day' celebrated every year ?

उ: सितंबर 14 / September 14.

114. राजभाषा नियम के अनुसार, अंदमान व निकोबार द्वीप समूह किस क्षेत्र में आता है ? / According to Official Language Rules, under which region Andaman & Nicobar Islands come ?

उ: 'क' क्षेत्र / 'A' Region.

115. 'ख' क्षेत्र में वगैरह सघं राज्य -ों के कौन-कौन से हैं ? / Which are the Union Territories classified under Region 'B' ?

उ: चंडीगढ़ सघं राज्य -ों, दादरा और नगर हवेली तथा दमन और दीव / Union Territory of Chandigarh, Dadra & Nagar Haveli and Daman & Diu.

116. अरुणाचल प्रदेश की राजभाषा क्या है ? / What is the Official Language of Arunachal Pradesh ?

उ: अंग्रेजी / English.

117. हिंदीतर भाषी लोगों के निवासियों को दिए गए आँव वासनों को कानूनी रूप देने के लिए पारित अधिनियम क्या है ? / What is the Act passed to give legal form to the assurances given to Non-Hindi speaking people ?

उ: राजभाषा (संशोधित) अधिनियम - 1967 / Official Languages Act (Amended) - 1967.

118. राजभाषा अधिनियम की धारा 3(3) कब से प्रवृत्त हुई ? / From when did the Section 3(3) of Official Languages Act take effect ?

उ: 26 जनवरी 1965 / 26 January 1965.

119. राजभाषा अधिनियम 1963 की धारा (IV) किससे संबंधित है ? / With which Section (IV) of Official Languages Act 1963 is concerned ?

उ: संसदीय राजभाषा समिति के गठन से संबंधित है / It is concerned with the Constitution of Parliamentary Committee on Official Languages.



120. राजभाषा नीति की जानकारी देने वाले अनुच्छेद 343-351, संविधान के किस भाग में हैं? / In which part of the Constitution are the Articles 343-351, that gave information about Official Language available ?

उ: भाग - XVII - (सप्तदश भाग में) / Part XVII (In the Seventeenth Part).