

**QUESTION PAPER FOR THE SELECTION FOR THE POST OF JE/DSL/MECH/TNP IN  
LEVEL 6 OF PAY MATRIX VII PC AGAINST 25% PROMOTIONAL QUOTA,  
MECHANICAL DEPARTMENT, CHENNAI DIVISION**

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DATE : 20.04.2021

TIME: 15.00 hrs. to 17.00 hrs.

DURATION : 2 HRS

MAXIMUM MARKS : 100

**GENERAL INSTRUCTIONS**

1. Candidates should write their name, designation, office, roll number/staff number, etc., only in the space provided in the fly leaf and not in any of the page in the answer books or additional sheets.
2. If any answer book is found with name(s)/roll number(s) other than in the space provided, the answer book will not be evaluated and the candidate will be disqualified.
3. Candidates should answer only 100 questions. If more than 100 questions are answered, only the first 100 answers will be evaluated.
4. Answering of questions on Official Language is NOT COMPULSORY.
5. There will be no negative marking for incorrect answers.
6. The answers to be written only as A/B/C/D (only in capital letters as given in the Question Paper). Part headings, if any given in the Question Paper, the same should be written by the candidates in the answer sheet.
7. In the answers to the objective type questions, no correction of any type like (i) cutting (ii) overwriting (iii) erasing (iv) scoring off a ticked answer in multiple choice and ticking another answer and (v) modifying the answer in any way is permitted. Such answers will not be evaluated at all.
8. Candidates are not allowed to keep mobile phones/Electronic gadgets or any other documents/papers within the examination hall. If found carrying such equipment, their candidature will be cancelled.
9. Candidates may take the question paper with them after the examination is over.

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**I. FILL IN THE BLANKS**

1. No. of vertical damper in WDG3A per truck is \_\_\_\_\_
- |   |       |   |       |
|---|-------|---|-------|
| A | Two   | B | Four  |
| C | Three | D | Eight |

2. Suspension bearing are lubricated by \_\_\_\_\_ in WDM2.
- |   |           |   |               |
|---|-----------|---|---------------|
| A | Wickpad   | B | Grease        |
| C | RR606 oil | D | None of these |
3. Traction Bar is available in \_\_\_\_\_.
- |   |       |   |       |
|---|-------|---|-------|
| A | WDM3A | B | WDG3A |
| C | WPEA  | D | WDG4  |
4. \_\_\_\_\_ prevents separation of bogie and chassis during accident in WDG3A.
- |   |           |   |                  |
|---|-----------|---|------------------|
| A | U pin     | B | Split collar pin |
| C | D-Shackle | D | Vertical damper  |
5. 'H' type bolster is available in \_\_\_\_\_.
- |   |       |   |       |
|---|-------|---|-------|
| A | WDM3A | B | WDG3A |
| C | WP3A  | D | WDG4  |
6. To avoid brake pull rod falling down on run, \_\_\_\_\_ is available.
- |   |                |   |              |
|---|----------------|---|--------------|
| A | Safety bracket | B | C clamp      |
| C | D-Shackle      | D | Traction bar |
7. Snubber assembly is available at \_\_\_\_\_ in WDM2 locos.
- |   |                  |   |                   |
|---|------------------|---|-------------------|
| A | Left coil spring | B | Right coil spring |
| C | Centre pivot     | D | Gear case         |
8. During cranking, if OSTA tripped, engine will not \_\_\_\_\_.
- |   |           |   |               |
|---|-----------|---|---------------|
| A | Crank     | B | Fire          |
| C | No change | D | None of these |
9. PCS will open if BP PR drops below \_\_\_\_\_ kg/cm<sup>2</sup>.
- |   |     |   |     |
|---|-----|---|-----|
| A | 2.8 | B | 4.2 |
| C | 3.5 | D | 5   |
10. Engine will shutdown if \_\_\_\_\_ drops below \_\_\_\_\_ kg/cm<sup>2</sup>.
- |   |          |   |          |
|---|----------|---|----------|
| A | FOP, 1.5 | B | LOP, 1.3 |
| C | FOP, 1.3 | D | LOP, 1.5 |
11. \_\_\_\_\_ handle to be pulled to reset OSTA.
- |   |      |   |            |
|---|------|---|------------|
| A | A9   | B | Hand brake |
| C | Trip | D | Reset      |





22. \_\_\_\_\_ nos. of fire extinguisher are available in loco.
- |   |       |   |       |
|---|-------|---|-------|
| A | Two   | B | Four  |
| C | Three | D | Eight |
23. Reading are taken in every \_\_\_\_\_ minutes while working.
- |   |        |   |        |
|---|--------|---|--------|
| A | 20 min | B | 10 min |
| C | 30 min | D | 40 min |
24. Locking of coupling is ensured by \_\_\_\_\_ in the H type coupling.
- |   |                          |   |                        |
|---|--------------------------|---|------------------------|
| A | Blocked V groove passage | B | Clear V groove passage |
| C | No indication            | D | None of these          |
25. After securing coupling, \_\_\_\_\_ pin to be secured.
- |   |                     |   |               |
|---|---------------------|---|---------------|
| A | Knuckle pin         | B | Clevis pin    |
| C | Coupling safety pin | D | None of these |
26. If lock lifting lever is in bent position, \_\_\_\_\_ may not be opened.
- |   |                  |   |                    |
|---|------------------|---|--------------------|
| A | Coopers coupling | B | Fast coupling      |
| C | CBC coupling     | D | Universal coupling |
27. \_\_\_\_\_ protects separation of bogie and chassis during accident in WDM2.
- |   |                 |   |                              |
|---|-----------------|---|------------------------------|
| A | D-shackle       | B | U clamp and bogie collar pin |
| C | Catche assembly | D | None of these                |
28. \_\_\_\_\_ valve is used to protect pump and motor in fuel oil system.
- |   |                  |   |               |
|---|------------------|---|---------------|
| A | Relief valve     | B | Byepass valve |
| C | Regulating valve | D | None of these |
29. Fuel efficient engine will have \_\_\_\_\_ turbos.
- |   |           |   |               |
|---|-----------|---|---------------|
| A | ABB or GE | B | Alco 720      |
| C | Alco 350  | D | None of these |
30. In some locos when BP is normal, but TH not responding LP has to \_\_\_\_\_.
- |   |                              |   |                      |
|---|------------------------------|---|----------------------|
| A | Switch on MU2B toggle switch | B | Change MU2B to trail |
| C | No action                    | D | None of these        |
31. DMR will get energized when BP increases to above \_\_\_\_\_ kg/cm<sup>2</sup>.
- |   |     |   |     |
|---|-----|---|-----|
| A | 2.8 | B | 4.2 |
| C | 3.5 | D | 5   |



32. In MU trail loco, while applying A9 in full service BC increases to \_\_\_\_\_ kg/cm<sup>2</sup>.

- A 2.8
- B 1.8
- C 3.5
- D 5

33. In dead loco, when MR & BC equalizers are connected while applying SA9 full BC increases to \_\_\_\_\_ kg/cm<sup>2</sup>.

- A 2.8
- B 4.2
- C 3.5
- D 5

34. AFI will not shoot up in \_\_\_\_\_ and \_\_\_\_\_ operations.

- A SA9 & A9
- B SA9 & VCD
- C A9 & VCD
- D None of these

35. When A9 is applied to emergency position, formation brake will get maximum of \_\_\_\_\_ kg/cm<sup>2</sup>.

- A 1.8
- B 3.8
- C 3.5
- D 5

36. To avoid jerk and flat tyre, \_\_\_\_\_ brake should not be allowed on running train.

- A A9
- B SA9
- C D-1 emergency
- D None of these

37. On run if MU loco parted both the loco will get brake application due to the action of \_\_\_\_\_ valve in \_\_\_\_\_ position.

- A MU2B & TRAIL
- B F1 selector & Auto lead
- C MU2B & Auto Lead
- D None of these

38. BP drops without AFI indicates \_\_\_\_\_

- A SA9 defect
- B VCD
- C C3W defect
- D None of these

39. For quick release of conjunction brake LP has to \_\_\_\_\_

- A Press foot pedal
- B Charge BP
- C No operation
- D None of these

40. When VCD is operated BP drops to \_\_\_\_\_ kg/cm<sup>2</sup> in IRAB.

- A 2.8
- B 3.0
- C 3.5
- D 4.2

41. Brake feel test to be conducted in \_\_\_\_\_ section.
- |   |       |   |               |
|---|-------|---|---------------|
| A | Block | B | Station       |
| C | Mid   | D | None of these |
42. During DB, while applying A9 emergency \_\_\_\_\_ brake is also applied.
- |   |             |   |               |
|---|-------------|---|---------------|
| A | Conjunction | B | SA9 brake     |
| C | No brake    | D | None of these |
43. While conducting brake feel test, \_\_\_\_\_ must be nullified.
- |   |             |   |               |
|---|-------------|---|---------------|
| A | Conjunction | B | SA9 brake     |
| C | No brake    | D | None of these |
44. If BP coc is closed, BP gauge will indicate \_\_\_\_\_ kg/cm<sup>2</sup>.
- |   |   |   |               |
|---|---|---|---------------|
| A | 5 | B | Zero          |
| C | 6 | D | None of these |
45. Fuel booster pump of ALCO loco is located at \_\_\_\_\_ room.
- |   |                  |   |             |
|---|------------------|---|-------------|
| A | Undertruck       | B | Compressor  |
| C | Nose compartment | D | Engine room |
46. While conducting Brake continuity test, \_\_\_\_\_ coc must be closed.
- |   |                  |   |               |
|---|------------------|---|---------------|
| A | MR. Eq           | B | BC.Eq         |
| C | BP isolation coc | D | None of these |
47. Inlet, outlet and bypass COC is available in \_\_\_\_\_ unit.
- |   |            |   |               |
|---|------------|---|---------------|
| A | EPG        | B | Maotti Filter |
| C | Centrifuge | D | Air dryer     |
48. If CCEM fails on run \_\_\_\_\_ will burst.
- |   |                            |   |                    |
|---|----------------------------|---|--------------------|
| A | Crank case inspection door | B | Radiator room door |
| C | Explosion door             | D | None of these      |
49. In Lube oil system, Regulating valve set at \_\_\_\_\_ kg/cm<sup>2</sup>.
- |   |     |   |               |
|---|-----|---|---------------|
| A | 9.1 | B | 7.5           |
| C | 5.3 | D | None of these |
50. LLOB trips at \_\_\_\_\_ kg/cm<sup>2</sup> and set at \_\_\_\_\_ kg/cm<sup>2</sup>.
- |   |           |   |               |
|---|-----------|---|---------------|
| A | 1.6 & 1.3 | B | 1.3 & 1.6     |
| C | 2.8 & 4.2 | D | None of these |



51. Water entry into the lube oil is indicated through \_\_\_\_\_ smoke from CCEM exhaust.

- A Black
- B White
- C Bluish green
- D None of these

52. If Cyclonic filter is blocked, \_\_\_\_\_ will not build up.

- A FOP
- B LOP
- C BAP
- D None of these

53. In WDM2 loco at 74°C \_\_\_\_\_ will pick up and at 90.5°C \_\_\_\_\_ will pick up, engine comes to \_\_\_\_\_.

- A TS1, ETS, shut down
- B TS1, TS2, idle
- C TS2, ETS, idle
- D None of these

54. Lube oil Relief valve set at \_\_\_\_\_

- A 9.1 kg/cm<sup>2</sup>
- B 7.5 kg/cm<sup>2</sup>
- C 4.1 kg/cm<sup>2</sup>
- D 5.3 kg/cm<sup>2</sup>

55. Water contamination in the lube oil leads to \_\_\_\_\_ drops.'

- A BAP
- B FOP
- C LOP
- D Hauling power

56. Axles are counted from \_\_\_\_\_ to \_\_\_\_\_.

- A Power-take-off end to free end
- B Free end to power take off end
- C SH to LH
- D LH to SH

57. Radiator room door opening may lead to \_\_\_\_\_ in ALCO locos.

- A Engine shut down
- B Hot engine alarm
- C Less BAP
- D Less FOP

58. If loco brake is not releasing, \_\_\_\_\_

- A Release QRV
- B Press foot pedal
- C Press Run/Release switch
- D Charge BP fully

59. When isolating C3W distributor valve coc in dead loco \_\_\_\_\_

- A MR not charge
- B Conjunction pressure not charged
- C BP not charged
- D BC not charged

60. The Duplex valve will open and allow the air, provided MR pressure should be more than \_\_\_\_\_ kg/cm<sup>2</sup>.

- A 3
- B 10

C 5

D 6

61. On run, if BP increased beyond 5kg/cm<sup>2</sup> during A9 application and release

A Brakes will get released  
C Brakes, late application

B Brakes will not get released  
D Brakes, late release

62. Normal position of the additional BP coc is \_\_\_\_\_

A Open and sealed  
C Closed and sealed

B Closed  
D None of these

63. Sensing pressure of DV to apply brake is \_\_\_\_\_.

A 0.6 kg/cm<sup>2</sup>/60 sec.  
C 0.3 kg/cm<sup>2</sup>/60 sec.

B 0.3 kg/cm<sup>2</sup>/ 6 sec.  
D 0.6 kg/cm<sup>2</sup>/6 sec.

64. Suspension bearing oil is not available in \_\_\_\_\_ locos.

A WDP3A  
C WDM3A

B WDM7  
D WDM2

65. OSTA has \_\_\_\_\_ no. of handles.

A 04  
C 02

B 03  
D 01

66. \_\_\_\_\_ is connected to right camshaft.

A Lube oil pump  
C Vibration damper

B Water pump  
D OSTA

67. In \_\_\_\_\_ type coupling, removal of clevis pin is eliminated.

A E type  
C H type

B Modified H type  
D Modified E type

68. The reverse flow of air from MR2 to MR1 is prevented by \_\_\_\_\_.

A Safety valve  
C NRV

B N1 reducing valve  
D None of these

69. Centrifugal oil cleaner is used to filter \_\_\_\_\_ in Lube oil system.

A Carbon particles  
C Fine dust

B Coarse dust  
D None of these

70. No. of inlet valves in Cylinder head of WDM2 loco are

A 03

B 02



C 04 D None

71. Push rods are provided to operate \_\_\_\_\_

- A FIP B Rocker arm
- C OSTA D Valve seats

72. Type of water pump used in Diesel loco is \_\_\_\_\_

- A Gear type B reciprocating
- C Centrifugal tye D Rotary type

73. Type of cylinder liners used in ALCO loco are \_\_\_\_\_

- A Wet type B Dry type
- C Both A and B D Rotary type

74. Pinion and Bull gear are covered by \_\_\_\_\_

- A Gear case B Resilient pad
- C Traction bar D None of these

75. Minimum wheel diameter is \_\_\_\_\_ mm.

- A 1050 B 1000
- C 1016 D 1092

76. During dynamic braking, loco brake is nullified by \_\_\_\_\_ valve.

- A F1 selector B D1 pilot air valve
- C MU2B D C3W

77. WDS6 loco consists of \_\_\_\_\_ no. of engine cylinders.

- A 8 B 16
- C 6 D 12

78. Which type of bogie is used in WDM2 loco?

- A Bi-mount B Tri-mount
- C Uni-mount D None of these

79. Additional C-2 relay valve is used in air brake system of ALCO locos for \_\_\_\_\_

- A MR pipe charging B BP pipe charging
- C Feed pipe charging D None of these

80. The number of radiator fan available in ALCO locos is \_\_\_\_\_

- A 3 B 2
- C 1 D None of these

81. Firing order of ALCO Diesel engine is \_\_\_\_\_

- |   |                     |   |                     |
|---|---------------------|---|---------------------|
| A | 1 4 7 6 8 5 2 3 R/L | B | 1 4 6 7 8 5 2 3 R/L |
| C | 1 4 7 6 8 2 5 3 R/L | D | 1 4 7 6 5 8 2 3 R/L |

82. Insensitivity of DV is \_\_\_\_\_

- |   |                                    |   |                                    |
|---|------------------------------------|---|------------------------------------|
| A | 0.6 kg/cm <sup>2</sup> in 6 secs.  | B | 0.3 kg/cm <sup>2</sup> in 60 secs. |
| C | 0.6 kg/cm <sup>2</sup> in 60 secs. | D | 0.5 kg/cm <sup>2</sup> in 60 secs. |

83. Torque value of water jumper in ALCO loco is \_\_\_\_\_ (in ft-lb)

- |   |     |   |     |
|---|-----|---|-----|
| A | 50  | B | 75  |
| C | 100 | D | 125 |

84. In ALCO loco, fuel oil regulating valve is set at \_\_\_\_\_ kg/cm<sup>2</sup>.

- |   |   |   |     |
|---|---|---|-----|
| A | 3 | B | 4.2 |
| C | 5 | D | 6   |

85. Breather valve is provided on \_\_\_\_\_

- |   |            |   |                |
|---|------------|---|----------------|
| A | Governor   | B | LP Cab         |
| C | Compressor | D | Main generator |

86. Cam gears are lubricated by \_\_\_\_\_

- |   |              |   |                  |
|---|--------------|---|------------------|
| A | Main header  | B | Auxiliary header |
| C | Both A and B | D | None of these    |

87. The safety device provided in brake system is \_\_\_\_\_.

- |   |      |   |     |
|---|------|---|-----|
| A | LLOB | B | PCS |
| C | OSTA | D | LWS |

88. In IRAB1 system, SA9 feed valve has \_\_\_\_\_ no. of positions.

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

89. During A9 Emergency position, BP becomes \_\_\_\_\_ kg/cm<sup>2</sup> and BC becomes \_\_\_\_\_ kg/cm<sup>2</sup>.

- |   |         |   |         |
|---|---------|---|---------|
| A | 0 & 1.8 | B | 5 & 3.5 |
| C | 2.5 & 0 | D | 0 & 0   |

90. What is the unit of S.F.C. (Specific Fuel Consumption)?

- |   |              |   |                     |
|---|--------------|---|---------------------|
| A | gm/hp/hr.    | B | Litres/Kwhr/minutes |
| C | Kg/Newton/hr | D | None of these       |



91. In WDP2 , how many nos. of cam bushes fitted are in block?  
A 10 nos. B 18 nos.  
C 15 nos. D 20 nos.
92. Engine crank case vacuum is not building up due to \_\_\_\_\_  
A Linear chrome plating worn out B Fuel motor not working  
C Dust blower not working D Engine RPM less
93. Cylinder Head hydraulic testing is done at \_\_\_\_\_  
A 5.0 kg/cm<sup>2</sup> B 10.0 kg/cm<sup>2</sup>  
C 1.0 Kg/cm<sup>2</sup> D 2.5 kg/cm<sup>2</sup>
94. During overlapping period, inlet and exhaust valve remain in \_\_\_\_\_  
A Closed position B Open position  
C Open and closed position D None of these
95. Internal cracks in the axle are detected by \_\_\_\_\_ test.  
A DPT B Ultrasonic  
C Zyglo D Magnetic particle test
96. Height of centre buffer coupler of WDM2 loco is \_\_\_\_\_mm.  
A 1030-1105 B 1100-1150  
C 1010-1150 D 1060-1105
97. In WDM2 loco, split gear is mounted on crankshaft near main bearing \_\_\_\_\_  
A No.1 B No.5  
C No.7 D No.9
98. Air dryer is provided between \_\_\_\_\_  
A MR Cooling coil & MR1 B MR1 & MR2  
C Compressor & MR cooling coil D Inter cooler & After cooler
99. Gear case of ALCO Locomotive is lubricated by \_\_\_\_\_  
A Lube oil B Soft grease  
C Hard grease D Cardium compound
100. High viscosity indicates \_\_\_\_\_  
A Mixing of water in lube oil B Mixing of fuel in lube oil  
C Mixing of carbon contents D None of these

101. When was Official Languages Act 1963 passed?  
 A 16.06.1961 B 25.02.1963  
 C 10.05.1963 D 10.05.1967
102. When is Hindi Day Celebrated every year?  
 A 14<sup>th</sup> September B 17<sup>th</sup> October  
 C 2<sup>nd</sup> November D 14<sup>th</sup> April
103. According to Official Languages Rules, Andaman & Nicobar Islands come under which Region?  
 A Region B B Region C  
 C Region A D None of these
104. When was the Official Language Rules passed?  
 A 1972 B 1976  
 C 1973 D 1979
105. How many Lok Sabha members are there in the Committee of Parliament on Official Language?  
 A 30 B 25  
 C 20 D 15
106. What is the periodicity of the meetings of Official Language Implementation Committees?  
 A Once in 3 months B Once in 6 months  
 C Once in 12 months D Once in 4 months
107. From which course is a category 'C' employee required to be trained?  
 A Praveen B Prabodh  
 C Pragya D All of the above
108. What is the Foreign language included in the Eighth Schedule?  
 A Sinhala B Bangla  
 C Chinese D Nepali
109. Who is the Chairman of the Divl. Official Language Implementation Committee?  
 A ADRM B DRM  
 C Sr.DPO D Rajbhasha Adhikari
110. In which Article is the provision regarding OL policy available in Part V of the Constitution?  
 A Article 110 B Article 120  
 C Article 210 D Article 140

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मुख्य लोको निरीक्षक/ मैकेनिकल डीएसएल(Level-7) के पद के लिए लिखित परीक्षा  
WRITTEN EXAMINATION FOR THE POST OF CHIEF LOCO INSPECTOR/ Mech DSL(Level-7)

தலைமை லோகோ இன்ஸ்பெக்டர்/ Mech டி.எஸ்.எல்(Level-7) பதவிக்கான எழுத்துத் தேர்வு

தேதி/दिनांक /Date: 15.03.2024



கால அளவு/समय/Time: 2 hrs

மொத்த மதிப்பெண்கள்/अधिकतम प्राप्तांक/Maximum marks: 100

अभ्यर्थियों के लिए निर्देश / INSTRUCTIONS TO THE CANDIDATES / தேர்வு எழுதுவோருக்கு அறிவுறுத்தல்கள்

1.	<p>जांच करें कि प्रश्न पत्र में 110 प्रश्न हैं और यदि कोई अमुद्रित/फटे हुए पृष्ठ है तो इसे बदलवा लें। Check that the Question Paper contains 110 questions and if any unprinted/torn pages are found, get it replaced. வினாத்தாளில் 110 கேள்விகள் உள்ளதா என சரிபார்த்து, அச்சிடப்படாத/கிழிந்த பக்கங்கள் காணப்பட்டால், அதை மாற்றவும்.</p>
2.	<p>इसमें बहुविकल्पीय उत्तरों के साथ 110 प्रश्न हैं। प्रत्येक प्रश्न का अंक समान है। प्रत्येक गलत उत्तर के लिए ऋणात्मक अंक @ 1/3 दिया जाएगा। There will be 110 questions with four multiple choice answers. Each Question carries equal mark. <b>There will be negative mark @ 1/3 for each wrong answer.</b> நான்கு தெரிவு பதில்களுடன் 110 கேள்விகள் இருக்கும். ஒவ்வொரு கேள்விக்கும் சம மதிப்பெண் உண்டு. ஒவ்வொரு தவறான பதிலுக்கும் @ 1/3 எதிர்மறை மதிப்பெண் இருக்கும்.</p>
3.	<p>कृपया ध्यान दें कि किसी संदेह/ विसंगति होने पर, सबसे उपयुक्त विकल्प और अंग्रेजी संस्करण प्रभावी होगा। परीक्षा के लिए उपस्थित होने वाले अभ्यर्थियों से अनुरोध है कि वे परीक्षा प्रारंभ में/ परीक्षा के दौरान किसी भी भी प्रश्न/ विकल्प के बारे में अपनी शंकाओं को समाधान कर लें, ताकि सभी के लाभ के लिए इसे स्पष्ट/ सुधार/प्रतिस्थापित किया जा सके। It may be noted that in the event of any doubt/discrepancy, the most apt option and the English Version will prevail. The candidates appearing for the exam are requested to clarify their doubts about any questions/option, at the beginning of / during the examination, so that the same shall be clarified/corrected/substituted, for the benefit of all. ஏதேனும் சந்தேகம்/முரண்பாடு ஏற்பட்டால், மிகவும் பொருத்தமான விருப்பம் மற்றும் ஆங்கிலப் பதிப்பு மேலோங்கும் என்பதைக் கவனத்தில் கொள்ளலாம். தேர்வில் பங்கேற்கும் விண்ணப்பதாரர்கள் ஏதேனும் கேள்விகள்/விருப்பம் குறித்த சந்தேகங்களைத் தேர்வின் தொடக்கத்தில்/தேர்வின் போது தெளிவுபடுத்துமாறு கேட்டுக்கொள்ளப்படுகிறார்கள், இதனால் அனைவருக்கும் நன்மை ஏற்படும் வகையில் அவை தெளிவுபடுத்தப்படும்/திருத்தப்படும்/பதிலளிக்கப்படும்.</p>
4.	<p>अभ्यर्थियों को ओ.एम.आर उत्तर पत्रक में आइटम संख्या 1 से 11 तक भरना आवश्यक है। ओ.एम.आर शीट पर लिखने/छायांकन/काला करने के लिए केवल नीले/काले बॉल पॉइंट पेन का उपयोग करें। जेल पेन / पेंसिल की अनुमति नहीं है। <b>Candidates are required to fill Items No.1 to 11 in the OMR answer sheet. Use only Blue/Black Ball Point Pen for writing/shading/darkening on the OMR Sheet. Gel Pens/Pencils are not allowed.</b> விண்ணப்பதாரர்கள் OMR விடைத்தாளில் எண் 1 முதல் 11 வரை உள்ள உருப்படிகளை நிரப்ப வேண்டும். OMR தாளில் எழுத/நிழலிட/ கருமையாக்க நீல/கருப்பு பால் பாயிண்ட் பேனாவை மட்டும் பயன்படுத்தவும். ஜெல் பேனாக்கள்/பென்சில்கள் அனுமதிக்கப்படாது.</p>
5.	<p>ओ.एम.आर उत्तर पत्रक में डुप्लिकेट कॉपी होती है और उत्तर देते समय डुप्लिकेट कॉपी को अलग या विस्थापित करने का प्रयास न करें। मूल ओ.एम.आर उत्तर पत्रक पर किया गया गाढ़ा/काला स्वतः कार्बन रहित कॉपी पर दिखाई देगा इसलिए कार्बन रहित प्रतिलिपि पर अलग से गाढ़ा/काला करने की आवश्यकता नहीं है। The OMR answer sheet contains duplicate copy and <b>DO NOT ATTEMPT TO SEPARATE OR DISPLACE THE DUPLICATE COPY WHILE ANSWERING.</b> The shading/darkening done on the original OMR answer sheet will automatically appear on the Carbonless Copy and hence no separate shading/darkening requires on the carbonless copy. OMR விடைத்தாளில் நகல் உள்ளது மற்றும் பதிலளிக்கும் போது நகலை பிரிக்கவோ அல்லது இடமாற்றவோ முயற்சிக்க வேண்டாம். அசல் OMR விடைத்தாளில் செய்யப்படும் ஷேடிங்/டார்க்கனிங் தானாகவே கார்பன் இல்லாத நகலில் தோன்றும், எனவே கார்பன் இல்லாத பிரதியில் தனித்தனி ஷேடிங்/டார்க்கனிங் தேவையில்லை.</p>



6. ओ.एम.आर शीट पर किसी भी प्रकार का सुधार (जैसे कि - ओवरराइटिंग, काटिंग, मिटाना या उत्तर में किसी भी प्रकार का परिवर्तन) स्वीकार नहीं किया जाएगा। ऐसे उत्तरों के लिए शून्य अंक दिए जाएंगे। ओ.एम.आर शीट को बदला नहीं जाएगा। Corrections of any type on the OMR Sheet (eg. Overwriting, cutting, erasing or alterations of any type in the answer) **will not be accepted**. Zero marks will be given for such answers. **No replacement OMR Sheet will be provided.**  
OMR தாளில் உள்ள எந்த வகை திருத்தங்களும் (எ.கா. மேலெழுதுதல், வெட்டுதல், அழித்தல் அல்லது பதிலில் உள்ள எந்த வகையிலும் மாற்றங்கள்) ஏற்றுக்கொள்ளப்படாது. அத்தகைய பதில்களுக்கு பூஜ்ஜிய மதிப்பெண்கள் வழங்கப்படும். மாற்று OMR தாள் எதுவும் வழங்கப்படாது.
7. कृपया अपना कर्मचारी संख्या केवल उत्तर पुस्तिका में दिए गए बॉक्स में दर्ज करें और संबंधित वृत्त को काला करें। Please enter your **Employee No** only in the BOX provided in the Answer Sheet and darken the corresponding circle.  
விடைத்தாளில் கொடுக்கப்பட்டுள்ள பெட்டியில் உங்கள் பணியாளர் எண்ணை மட்டும் உள்ளிட்டு, தொடர்புடைய வட்டத்தை இருட்டாக்கவும்.
8. प्रश्न 1 से 110 के उत्तर बहुविकल्पों A, B, C, D के रूप में दिए गए हैं। प्रत्येक प्रश्न का दिए गए बहुविकल्पों (A, B, C, D) में से का केवल एक सही उत्तर चुनें और उपयुक्त वृत्त को पूरी तरह से काला/गाढ़ा करें। एक बार उत्तर देने के बाद परिवर्तन की अनुमति नहीं है।  
Answers to Questions 1 to 110 are given in the multiple choice as A,B,C,D. Choose only one correct answer to each question from the multiple choice given (A,B,C,D) and darken/shade the appropriate circle fully. Changes are not permitted once answered.  
1 முதல் 110 வரையிலான கேள்விகளுக்கான பதில்கள் A,B,C,D என பல தேர்வில் கொடுக்கப்பட்டுள்ளன. கொடுக்கப்பட்டுள்ள பல தெரிவுகளில் (A,B,C,D) ஒவ்வொரு கேள்விக்கும் ஒரே ஒரு சரியான பதிலை மட்டும் தேர்ந்தெடுத்து, பொருத்தமான வட்டத்தை முழுவதுமாக இருட்டடிப்பு/நிழலிடவும். ஒருமுறை பதிலளித்தால் மாற்றங்கள் அனுமதிக்கப்படாது.  
சही तरीका /சரியான முறை / **Correct Method**   
गलत तरीका/தவறான முறைகள் / **Wrong Methods** 
9. अभ्यर्थियों को सख्त निर्देश दिया जाता है कि वे 110 प्रश्नों में से केवल 100 प्रश्नों का उत्तर दें। प्रथम प्रयास किए गए 100 प्रश्नों का मूल्यांकन किया जाएगा और सही उत्तर होने पर भी 100 से आगे के उत्तरों पर भी ध्यान नहीं दिया जाएगा। राजभाषा के प्रश्नों के उत्तर देना अनिवार्य नहीं है।  
Candidates are strictly advised to answer **only 100 questions** out of 110 questions. The first attempted 100 questions will be evaluated and answering more than 100 will be ignored even though correctly answered. Answering of questions in official language is **NOT COMPULSORY**.  
விண்ணப்பதாரர்கள் 110 கேள்விகளில் 100 கேள்விகளுக்கு மட்டுமே பதிலளிக்க வேண்டும் என்று அறிவுறுத்தப்படுகிறார்கள். முதலில் முயற்சித்த 100 கேள்விகள் மதிப்பிடப்பட்டு, 100க்கும் மேற்பட்ட விடைகள் சரியாகப் பதிலளித்தாலும் புறக்கணிக்கப்படும். அலுவல் மொழி கேள்விகளுக்கு பதிலளிப்பது கட்டாயமில்லை.
10. कृपया परीक्षा हॉल छोड़ने से पहले निरीक्षक को डुप्लिकेट कॉपी के सहित ओ.एम.आर शीट दे दें। अभ्यर्थियों द्वारा किसी ओ.एम.आर शीट की प्रति नहीं ले जानी चाहिए। उम्मीदवारों को परीक्षा के बाद प्रश्न पत्र अपने साथ ले जाने की अनुमति है। Please handover the OMR sheet along with its duplicate copy to the invigilator before leaving the examination hall. No OMR sheet copy should be carried by the candidate. Candidates are allowed to take the Question Paper with them after the examination.  
தேர்வு அறையை விட்டு வெளியேறும் முன் OMR தாளை அதன் நகலுடன் கண்காணிப்பாளரிடம் ஒப்படைக்கவும். OMR தாளின் நகலை விண்ணப்பதாரர் எடுத்துச் செல்லக்கூடாது. தேர்வர்கள் தேர்வுக்குப் பிறகு வினாத்தாளை எடுத்துச் செல்ல அனுமதிக்கப்படுகிறார்கள்.



- 1 आरएलसी का विस्तार करें  
Expand RLC  
RLC ஐ விரிவாக்கு
- A. Regional Labour Court  
B. Regional Labour Commissioner  
C. Regional Labour counsel  
D. None of the above
- 2 HOER नियमों के संदर्भ में, 'पूर्ण रात्रि' क्या है  
In the context of HOER rules, what is 'Full Night'  
HOER விதிகளின் சூழலில், 'முழு இரவு' என்றால்
- A. 10.00 PM to 05.00 AM  
B. 10.00 PM to 06.00 AM  
C. 06.00 PM to 06.00 AM  
D. 09.00 PM to 06.00 AM
- 3 HOER के अनुसार लोको पायलट किस श्रेणी में आता है?  
As per HOER, the Loco Pilot comes under which category  
HOER இன் படி, லோகோ பைலட் எந்த வகையின் கீழ் வருகிறார்
- A. Intensive  
B. Essentially Intermittent  
C. Continuous  
D. None of the above
- 4 रनिंग स्टाफ को आम तौर पर \_\_\_\_\_ दिनों से अधिक समय तक मुख्यालय से दूर नहीं रहना चाहिए।  
Running staff should not normally be away from head quarters for more than \_\_\_\_\_ days at a stretch.  
இயங்கும் பணியாளர்கள் வழக்கமாக \_\_\_\_\_ நாட்களுக்கு மேல் தலைமை அலுவலகத்திலிருந்து விலகி இருக்கக்கூடாது.
- A. Two  
B. Four  
C. One  
D. Three
- 5 रनिंग स्टाफ द्वारा प्रारंभिक और पूरक कार्य के लिए आवश्यक समय ----- एक सप्ताह माना जाएगा  
Time required for preparatory and complementary work by a running staff shall be deemed to be ----- a week  
இயங்கும் ஊழியர்களின் ஆயத்த மற்றும் நிரப்பு வேலைகளுக்கு தேவைப்படும் நேரம் ----- ஒரு வாரமாக கருதப்படும்
- A. One hour  
B. Four hours  
C. Two hours  
D. Six hours
- 6 लगातार काम करने वालों के मामले में 'लॉन्ग ऑन' का मतलब है ड्यूटी की अवधि-----  
In the case of continuous workers 'Long on' means period of duty -----  
தொடர்ச்சியான வேலையாட்களின் விஷயத்தில் 'லாங் ஆன்' என்றால் கடமை காலம் -----
- A. Above 10 hours  
B. Below 10 hours  
C. Below 8 hours  
D. Above 8 hours
- 7 रनिंग स्टाफ के मामले में वेतन की सामान्य दर में \_\_\_\_\_ शामिल है  
In case of running staff ordinary rate of pay includes \_\_\_\_\_  
இயங்கும் ஊழியர்களுக்கு சாதாரண ஊதிய விகிதம் \_\_\_\_\_ அடங்கும்

- A. 10% of basic pay  
B. 30% of basic pay  
C. 20% of basic pay  
D. 25% of basic pay

8 लोको पायलटों के ड्यूटी घंटों को प्रभावित करने वाले कारक हैं:

- I. दो क्रू परिवर्तन बिंदुओं के बीच की दूरी  
द्वितीय. ट्रेन को प्रस्थान से पहले रोकना  
तृतीय. ट्रेन की ग्रेडिएंट और बैंकिंग

Factors affecting the duty hours of Loco Pilots are:

- I. Distance between two crew change points  
II. Pre-Departure Detention of the Train  
III. Gradient and banking of the train

லோகோ பைலட்டுகளின் பணி நேரத்தை பாதிக்கும் காரணிகள்:

- I. இரண்டு குழு மாற்ற புள்ளிகளுக்கு இடையே உள்ள தூரம்  
II. ரயிலை புறப்படுவதற்கு முன் தடுத்து நிறுத்துதல்  
III. ரயிலின் சாய்வு மற்றும் வங்கி

- A. I only  
B. I & III  
C. I & II  
D. I, II, III

9 जो सीटीआर का हिस्सा नहीं है

Which is not part of CTR

இது CTR இன் பகுதியாக இல்லை

- A. Engine no.  
B. Inspection details of Loco  
C. Lub. oil and fuel oil consumption  
D. Signal and track defects observed by crew

10 \_\_\_\_\_ संख्या. साइन इन करते समय ट्रेन के गार्ड द्वारा सीटीआर फॉर्म एकत्र किए जाते हैं।

\_\_\_\_\_ nos. of CTR forms are collected by guard of the train at the time of signing on.

\_\_\_\_\_ எண்கள். கையொப்பமிடும் நேரத்தில் ரயிலின் காவலரால் CTR படிவங்கள் சேகரிக்கப்படுகின்றன.

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

11 ड्राइवरों के लिए 'सी श्रेणी' तय करने के लिए कुल अंक हैं:

Total Marks for deciding 'C category' to Drivers is:

ஓட்டுனர்களுக்கு 'சி வகை' முடிவு செய்வதற்கான மொத்த மதிப்பெண்கள்:

- A. 60-79  
B. <60  
C. >=80  
D. <50

12 क्रू लिंक तैयार करते समय विचार किए जाने वाले कारक:

I. ड्राइवरों का मुख्यालय विश्राम और आउट स्टेशन विश्राम

द्वितीय. दो क्रू परिवर्तन बिंदुओं के बीच चलने का समय

तृतीय. एक किले की रात में ड्यूटी के घंटे

Factors to be considered while preparing crew links:

- I. HQ rest & Out station rest of drivers



- II. Running time between two crew change points  
 III. Duty hours in a fort night

குழு இணைப்புகளைத் தயாரிக்கும் போது கருத்தில் கொள்ள வேண்டிய காரணிகள்:

- I. தலைமையக ஓய்வு & அவுட் ஸ்டேஷன் ஓட்டுனர்கள்  
 II. இரண்டு குழு மாற்ற புள்ளிகளுக்கு இடையே இயங்கும் நேரம்  
 III. ஒரு கோட்டை இரவில் பணி நேரம்

- A. I only  
 B. I & II  
 C. I, II, III  
 D. I & III

- 13 न्यूनतम संख्या से अधिक आवश्यक ड्राइवरों का प्रतिशत क्या है? ड्राइवरों को आराम और प्रशिक्षण सहित लीव रिजर्व का ध्यान रखना होगा

What is the %ge of drivers required over the bare minimum no. of drivers to take care of leave reserve including rest & training

குறைந்தபட்ச எண்ணிக்கையை விட %ஜி டிரைவர்கள் தேவை. ஓட்டுநர்கள் ஓய்வு மற்றும் பயிற்சி உட்பட விடுப்பு இருப்பை கவனித்துக் கொள்ள வேண்டும்

- A. 10%  
 B. 30%  
 C. 12.5%  
 D. 15%

- 14 लोको की आवश्यकता = (लोको लिंक के अनुसार न्यूनतम आवश्यकता) / (\_\_\_\_\_)

Requirement of the Locos =  $\frac{\text{Bare minimum requirement as per loco link}}{\text{_____}}$

லோகோக்களின் தேவை = (லோகோ இணைப்பின்படி குறைந்தபட்ச தேவை)/(\_\_\_\_\_)

- A. 0.98  
 B. 0.96  
 C. 0.97  
 D. 0.92

- 15 पैसेंजर ड्राइवर से मेल/एक्सप्रेस ड्राइवर के पद पर पदोन्नति \_\_\_\_\_ पर आधारित है

Promotion of Passenger driver to Mail/Express driver is based on \_\_\_\_\_

பயணிகள் ஓட்டுநரை அஞ்சல்/எக்ஸ்பிரஸ் டிரைவராக பதவி உயர்வு \_\_\_\_\_ அடிப்படையாக கொண்டது

- A. Merit test  
 B. Seniority Only  
 C. Merit cum Seniority  
 D. Viva-voce

16 अंजीर. नीचे दर्शाता है:

The fig. below represents:

அத்திப்பழம். கீழே பிரதிபலிக்கிறது:



- A. Inductor  
B. Capacitor  
C. Resistor  
D. None of the above

17 ब्रेक फील परीक्षण BP दबाव को \_\_\_\_\_ तक कम करके किया जाएगा  
Brake feel test shall be done by dropping BP pressure by\_\_\_\_  
BP அழுத்தத்தைக் குறைப்பதன் மூலம் பிரேக் ஃபீல் சோதனை \_\_\_\_\_ மூலம்  
செய்யப்படும்  
A. 0.5 kg/cm<sup>2</sup>  
B. 1 kg/cm<sup>2</sup>  
C. 0.6 kg/cm<sup>2</sup>  
D. 1.5 kg/cm<sup>2</sup>

18 निम्नलिखित लोको में से, सबसे कम एचपी रेटिंग वाला लोको है:  
Among the following locos, the one with the lowest HP rating is:

- பின்வரும் லோகோக்களில், குறைந்த ஹெச்பி ரேட்டிங்கைக் கொண்டவை:  
A. WDP1  
B. WDS6  
C. WDG3A  
D. WDM2

19 WDG4 लोकोमोटिव में प्रयुक्त ट्रैक्शन मोटर है:

The traction motor used in WDG4 locomotive is:

WDG4 இன்ஜினில் பயன்படுத்தப்படும் இழுவை மோட்டார்:

- A. Slip Ring Induction Motor  
B. Squirrel Cage Induction Motor  
C. DC Series Motor  
D. Synchronous Motor

20 सेल में प्रयुक्त इलेक्ट्रोलाइट \_\_\_\_\_ है

Electrolyte used in cell is \_\_\_\_\_

கலத்தில் பயன்படுத்தப்படும் எலக்ட்ரோலைட் \_\_\_\_\_

- A. H<sub>2</sub>SO<sub>4</sub>  
B. HCL  
C. Diluted H<sub>2</sub> SO<sub>4</sub>  
D. H<sub>2</sub>O

21 वीआरएलए बैटरी का मतलब है

VRLA Batteries means

VRLA பேட்டரிகள் என்றால்

- A. Valve regulated lead acid batteries  
B. Voltage regulated lead acid batteries  
C. Both A&B  
D. None



22. सेल की क्षमता मापी जाती है  
The capacity of cell is measured in  
கலத்தின் திறன் அளவிடப்படுகிறது
- A. Ampere hour  
B. Watt hour  
C. Amperes  
D. Watts
23. आईसी इंजन का कौन सा भाग पिस्टन से क्रैंक शाफ्ट तक बल संचारित करता है?  
Which part of the IC engine transmit force from the piston to the crank shaft?  
IC இயந்திரத்தின் எந்தப் பகுதி பிஸ்டனில் இருந்து கிராங்க் ஷாஃப்ட்டுக்கு விசையை கடத்துகிறது?
- A. Flywheel  
B. Connecting rod  
C. Camshaft  
D. Rocker Arm
24. डीजल लोको में, ईंधन लोड स्थितियों का अनुकरण करके ईंधन फीड प्रणाली की जांच करने के लिए \_\_\_\_\_ किया जाता है।  
In diesel locos, \_\_\_\_\_ is done to check the fuel feed system by simulating the fuel load conditions.  
டீசல் லோகோக்களில், எரிபொருள் சுமை நிலைகளை உருவகப்படுத்துவதன் மூலம் எரிபொருள் ஊட்ட அமைப்பைச் சரிபார்க்க \_\_\_\_\_ செய்யப்படுகிறது.
- A. Orifice test  
B. High pressure test  
C. Injection test  
D. Bleeding test
25. CCB ब्रेक सिस्टम वाले WDP4 लोको में, निम्नलिखित में से कौन सा 10 सेकंड के दंड आवेदन का कारण नहीं है?  
In a WDP4 loco with CCB brake system, which of the following is **not** a cause for 10 seconds penalty application?  
CCB பிரேக் சிஸ்டம் கொண்ட WDP4 லோகோவில், பின்வருவனவற்றில் 10 வினாடிகள் பெனால்டி விண்ணப்பத்திற்கு காரணமாக இல்லை?
- A. VCD operation  
B. AEB action  
C. Power failure in CCB unit  
D. BP pressure dropped below 2.8 kg/cm<sup>2</sup>
26. HHP लोको में सिलेंडरों की संख्या: \_\_\_\_\_  
The number of cylinders in HHP loco engine:  
HHP लोको इंजन में सिलेंडरों की संख्या:
- A. 0.8  
B. 12  
C. 14  
D. 16
27. WDG4 इंजन में सिलेंडरों को ठंडा किया जाता है  
In WDG4 engine cylinders are cooled by  
WDG4 இன்ஜின் சிலிண்டர்கள் குளிர்விக்கப்படுகின்றன

- A. Water  
B. Oil and water  
C. Super charged air and water  
D. Air conditioning

28 इलेक्ट्रिक मशीनों में, लेमिनेटेड कोर का उपयोग कम करने के लिए किया जाता है:

In electric machines, laminated cores are used to reduce:

மின்சார இயந்திரங்களில், லேமினேட் கோர்கள் குறைக்கப் பயன்படுத்தப்படுகின்றன:

- A. Eddy current loss  
B. Copper loss  
C. Windage loss  
D. Hysteresis loss

29 यदि एचएसडी तेल की खपत प्रति दिन 12 किलोलीटर है, तो आरसीडी को \_\_\_\_ माना जाता है।

If the consumption of HSD oil is 12 kL per day, the RCD is considered as \_\_\_\_.

HSD எண்ணெயின் நுகர்வு ஒரு நாளைக்கு 12 kL என்றால், RCD \_\_\_\_ ஆகக் கருதப்படுகிறது.

- A. Minor Installation  
B. Medium Installation  
C. Major Installation  
D. Storage Installation

30 श्रेणी-बी क्रू लॉबी का अर्थ है:

Category-B crew lobby means: பிரிவு-பி குழு லாபி என்றால்:

- A. the number of users are more than 100  
B. the number of users are in the range 51-70  
C. the number of users are in the range 21-50  
D. the number of users are in the range 11-30

31 सीएमएस में, परिपत्र/एसओबी यहां अपलोड किए जाते हैं:

In CMS, circulars/SOBs are uploaded at:

CMS இல், சுற்றறிக்கைகள்/SOBகள் இங்கு பதிவேற்றப்படுகின்றன:

- A. CRIS  
B. Divisional console  
C. Lobby console  
D. Crew console

32 एसी रिफ्रेशर कोर्स को इंगित करने के लिए 'क्रू मैनेजमेंट सिस्टम' में प्रयुक्त संक्षिप्त नाम कोड:

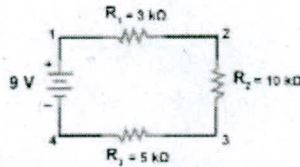
The abbreviation code used in 'Crew Management System' for indicating AC refresher course:

ஏசி.ரெஃப்ரேஷர் படிப்பைக் குறிக்க, 'க்ரூ மேனேஜ்மென்ட் சிஸ்டத்தில்'

பயன்படுத்தப்படும் சுருக்கக் குறியீடு:

- A. ACRE  
B. REFE  
C. REFT  
D. AIFT

33



परिपथ में प्रवाहित धारा क्या है?

What is the current flowing in the circuit?



- சுற்றுவட்டத்தில் பாயும் மின்னோட்டம் என்ன?
- A. 0.5 A B. 0.5 mA  
C. 2 A B. 2 mA
- 34 रनिंग स्टाफ के लिए 'प्रतीक्षा ड्यूटी भत्ता' का भुगतान निम्न दर से किया जाएगा:  
'Waiting duty allowance' for running staff shall be paid at the rate of:  
இயங்கும் ஊழியர்களுக்கான 'காத்திருப்பு கடமை அலவன்ஸ்' விகிதத்தில் வழங்கப்படும்:
- A. 70km for every 24 hrs B. 120 km for the duty  
C. 25 km per hour duty from sign on to sign off D. 15 km per hour upto 10 hours
- 35 सीएलआई द्वारा एलपी की ग्रेडिंग में, ड्राइविंग तकनीक के लिए अधिकतम अंक हैं:  
In grading of LPs by CLIs, the maximum marks for driving technique is:  
CLிகள் மூலம் LP களின் தரப்படுத்தலில், ஓட்டுநர் நுட்பத்திற்கான அதிகபட்ச மதிப்பெண்கள்:
- A. 10 B. 15  
C. 25 D. 30
- 36 दुर्घटना जांच में, दुर्घटना की तारीख से \_\_\_ दिनों के भीतर दंडात्मक कार्रवाई को अंतिम रूप दिया जाएगा।  
In accident enquiries, punitive action shall be finalized within \_\_\_ days from the date of accident.  
விபத்து விசாரணைகளில், விபத்து நடந்த நாளிலிருந்து \_\_\_ நாட்களுக்குள் தண்டனை நடவடிக்கை முடிக்கப்படும்.
- A. 30 B. 55  
C. 90 D. 120
- 37 दुर्घटना मैनुअल के अनुसार, रेल फ्रैक्चर को इस प्रकार वर्गीकृत किया गया है:  
As per accident manual, Rail fracture is classified as:  
விபத்து கையேட்டின் படி, ரயில் முறிவு பின்வருமாறு வகைப்படுத்தப்படுகிறது:
- A. Indicative accident B. Consequential accident  
C. Unusual incident D. Equipment failure
- 38 वीसीडी में, 'सतर्कता चक्र' का चक्र समय क्या है  
In VCD, what is the cycle time of 'Vigilance Cycle'  
விசிட்யில், 'விஜிலன்ஸ் சைக்கிளின்' சுழற்சி நேரம் என்ன?
- A. 60±2 seconds B. 8±2 seconds  
C. 32±2 seconds D. 10±2 seconds
- 39 अंतर प्रभागों को शामिल करते हुए 'ए' वर्ग ओडीसी के संचलन के लिए मंजूरी प्राधिकारी है  
The sanctioning authority for the movement of 'A' class ODC involving inter divisions is  
பிரிவுகளை உள்ளடக்கிய 'A' வகுப்பு ODC இயக்கத்திற்கான அனுமதி அதிகாரம்
- A. GM B. DRM  
C. PCOM D. PCEE

- 40 टाली गई टक्कर दुर्घटना के \_\_\_\_\_ वर्गीकरण के अंतर्गत आती है।  
Averted collision comes under \_\_\_\_\_ classification of accident.  
தவிர்க்கப்பட்ட மோதல் விபத்து \_\_\_\_\_ வகைப்பாட்டின் கீழ் வருகிறது.
- A. Unusual incidents  
B. Indicative accidents  
C. Train accidents  
D. Equipment failure
- 41 ट्रेन का पटरी से उतरना किस श्रेणी की दुर्घटना में आता है?  
Derailment of train comes under which category of accidents?  
ரயில் தடம் புரண்டது எந்த வகை விபத்துகளின் கீழ் வருகிறது?
- A. Class A  
B. Class B  
C. Class C  
D. Class D
- 42 दुर्घटना के बाद का पहला घंटा कहा जाता है  
The first hour after the accident is termed as  
விபத்து நடந்த முதல் மணிநேரம் என அழைக்கப்படுகிறது
- A. Golden Hour  
B. Precious hour  
C. Diamond hour  
D. First hour
- 43 दुर्घटना स्थल पर काम करता है:  
I. आगे की क्षति को रोकने के लिए लाइन सुरक्षा सुनिश्चित करें  
द्वितीय. संभागीय/मुख्यालय नियंत्रण को संदेश भेजना सुनिश्चित करें  
तृतीय. जीवन बचाने और घायल और फंसे हुए यात्रियों को चिकित्सा सहायता प्रदान करना।  
चतुर्थ. सुरागों को संरक्षित करना और साक्ष्य एकत्र करना
- दुर्घटना स्थल पर कार्यों की प्राथमिकता का क्रम कौन सा है?  
Works at accident site:
- I. Ensure Line protection to prevent further damage  
II. Ensure relay of message to divisional/HQ control  
III. To save life and provide Medical aid to injured and trapped passengers.  
IV. To preserve clues and collect evidences
- Which is the order of priority of works at accident site?  
விபத்து நடந்த இடத்தில் வேலை:
- I. மேலும் சேதத்தைத் தடுக்க கோடு பாதுகாப்பை உறுதி செய்தல்  
II. பிரிவு/தலைமையகக் கட்டுப்பாட்டிற்கு செய்தி அனுப்புவதை உறுதிசெய்யவும்  
III. உயிரைக் காப்பாற்றவும், காயமடைந்த மற்றும் சிக்கிய பயணிகளுக்கு மருத்துவ உதவி வழங்கவும்.  
IV. தடயங்களைப் பாதுகாக்கவும், ஆதாரங்களைச் சேகரிக்கவும்
- விபத்து நடந்த இடத்தில் பணிகளின் முன்னுரிமை வரிசை எது?
- A. I, II, III, IV  
B. IV, I, II, III  
C. I, II, IV, III  
D. III, IV, I, II
- 44 लोको आउटेज का मतलब यातायात के उपयोग के लिए उपलब्ध लोको की औसत संख्या है  
Loco outage means the average number of locos available to traffic use in



லோகோ செயலிழப்பு என்பது ட்ராஃபிக்கைப் பயன்படுத்துவதற்கான சராசரி லோகோக்களின் எண்ணிக்கையைக் குறிக்கிறது

- A. 24 hrs B. A month  
C. 10 days D. 15 days

45 दुर्घटना जांच का उद्देश्य है:

I. दुर्घटना के मूल कारण के अतिरिक्त कारण का पता लगाना  
द्वितीय. दुर्घटना के लिए जिम्मेदारी तय करना - प्राथमिक, द्वितीयक और दोषयोग्य  
तृतीय. उल्लंघन किए गए नियमों, निर्देशों और प्रक्रियाओं की पहचान करना  
चतुर्थ. यह निर्धारित करने के लिए कि क्या काम करने में सामान्य शिथिलता थी, जिसके लिए भी जिम्मेदार ठहराया गया है

The objective of accident enquiry is:

- I. To ascertain the cause of accident in addition to root cause  
II. To fix responsibility for accident – Primary, secondary and blameworthy  
III. To identify the rules, instructions and procedures violated  
IV. To determine whether there was general laxity in working, which has also attributed

விபத்து விசாரணையின் நோக்கம்:

- I. மூல காரணத்துடன் கூடுதலாக விபத்துக்கான காரணத்தை கண்டறிய  
II. விபத்துக்கான பொறுப்பை சரிசெய்வது - முதன்மை, இரண்டாம் நிலை மற்றும் குற்றம் சாட்டத்தக்கது  
III. மீறப்பட்ட விதிகள், அறிவுறுத்தல்கள் மற்றும் நடைமுறைகளை அடையாளம் காண  
IV. வேலை செய்வதில் பொதுவான தளர்வு இருந்ததா என்பதை தீர்மானிக்க, இதுவும் காரணமாகும்

- A. I & II only B. I, II, & III  
C. I & III only D. I, II, III, & IV

46 The target time of turning out the ART during night is

- A. 30 min B. 45 min  
C. 15 min D. 25 min

47 रोलिंग स्टॉक के पटरी से उतरने के संदर्भ में पीओएम क्या है?

What is POM in the context of derailment of rolling stock?

ரோலிங் ஸ்டாக் தடம் புரண்ட சூழலில் POM என்றால் என்ன?

- A. Point Of Mount B. Point Machine  
C. Plot Origin Marking D. Point Marking

48 A1 से A4 श्रेणियों के अंतर्गत आने वाले टकराव के सभी मामलों की जांच एक समिति द्वारा की जाएगी

All cases of collisions falling under A1 to A4 categories shall be inquired into by a committee of

A1 முதல் A4 வகைகளின் கீழ் வரும் மோதல்களின் அனைத்து வழக்குகளும் ஒரு குழுவால் விசாரிக்கப்படும்

- A. JAG Officers B. SS Officers  
C. JS Officers D. SAG Officers

- 49 किसी अनुभाग की 'अनुभागीय गति' को अन्यथा के रूप में जाना जाता है  
'Sectional speed' of a section is otherwise known as  
ஒரு பிரிவின் 'பிரிவு வேகம்' இல்லையெனில் அறியப்படுகிறது
- A. Booked speed B. MPS  
C. Normal speed D. Restricted speed
- 50 इस दौरान ऑटो ड्रेन वाल्व फट जाता है  
Auto drain valve blows during  
ஆட்டோ வடிகால் வால்வு வீசும் போது
- A. Loading of compressor B. Unloading of compressor  
C. When MR safety valve blow D. MR pressure is above 10.5 kg/cm<sup>2</sup>
- 51 डीजल लोको में रिवर्सर कॉन्टेक्टर का उपयोग किया जाता है  
Reverser contactor used on diesel loco is  
டீசல் லோகோவில் பயன்படுத்தப்படும் ரிவர்சர் காண்டாக்டர்
- A. To change the direction of field B. To use the Dynamic braking  
C. To pass the power supply to T/Motors D. None of the above
- 52 जीआर और जीएफओएलआर की रीसेटिंग कितनी बार की जाएगी  
How many times resetting of GR & GFOLR will be done  
GR & GFOLRஐ எத்தனை முறை மீட்டமைக்க வேண்டும்
- A. 3 B. 6  
C. work on lower notches D. Works upto destination
- 53 WDP4 D और WDP4 B लोकोमोटिव की अधिकतम गति है  
Maximum speed of WDP4 D & WDP4 B locomotive is  
WDP4 D & WDP4 B இன்ஜின் அதிகபட்ச வேகம்
- A. 130 kmph B. 160 kmph  
C. 150 kmph D. 180 kmph
- 54 HHP लोकोमोटिव में किस प्रकार का डीजल इंजन मॉडल लगाया जाता है?  
Which type of diesel engine model is fitted in HHP locomotive  
HHP இன்ஜினில் எந்த வகையான டீசல் எஞ்சின் மாடல் பொருத்தப்பட்டுள்ளது
- A. ALCO-251 B. GT46  
C. 710 G3B D. GT 46MAC
- 55 HHP लोको में ट्रैक्शन इनवर्टर की मुख्य भूमिका?  
Main role of Traction Inverters in HHP LOCO?  
HHP LOCO இல் இழுவை இன்வெர்ட்டர்களின் முக்கிய பங்கு?
- A. To control 3-Phase AC Induction Motors B. To control 3 phase Alternator  
C. Both A& B D. None of the above
- 56 मेधा मेक ट्रैक्शन सिस्टम से सुसज्जित एचएचपी लोको में कितने ट्रैक्शन इन्वर्टर उपलब्ध हैं



How many Traction Inverter are available in HHP Loco fitted with MEDHA make traction system

MEDHA மேக் டிராக்ஷன் சிஸ்டத்துடன் பொருத்தப்பட்ட HHP லோகோவில் எத்தனை டிராக்ஷன் இன்வெர்ட்டர்கள் உள்ளன

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

- 57 एचएचपी लोको में किस प्रकार के आईजीबीटी डिवाइस का उपयोग किया जाता है (मेधा मेक ट्रैक्शन सिस्टम में)

Which type of IGBT Device used in HHP loco (In Medha make Traction System)

HHP லோகோவில் எந்த வகையான IGBT சாதனம் பயன்படுத்தப்பட்டது

(மேதா மேக் டிராக்ஷன் சிஸ்டத்தில்)

- A. ABB make, V =6.5 KV, I=600Amps. 2 devices/phase module  
B. Siemens make, V =6.5 KV, I=600Amps. 6 devices  
C. Mitsubishi make, V =4.5 KV, I=1200Amps, 4 devices /phase module  
D. None of these

- 58 एचएचपी लोको में हेड लाइट सर्किट ब्रेकर की वर्तमान रेटिंग है

Current rating of Head Light circuit breaker in HHP loco is

ஹெச்பி லோகோவில் ஹெட் லைட் சர்க்யூட் பிரேக்கரின் தற்போதைய மதிப்பீடு

- A. 10 amp B. 15 amp  
C. 20 amp D. 35 amp

- 59 एचएचपी लोको में जनरल फील्ड सर्किट ब्रेकर की वर्तमान रेटिंग है

Current rating of GEN FIELD circuit breaker in HHP loco is

HHP லோகோவில் GEN FIELD சர்க்யூட் பிரேக்கரின் தற்போதைய

மதிப்பீடு

- A. 40 amp B. 50 amp  
C. 90 amp D. 35 amp

- 60 ..... प्रकार का स्पीडोमीटर WDG4 पर उपलब्ध है

.....type of speedometer is available on WDG4

..... ஸ்பீடோமீட்டர் வகை WDG4 இல் கிடைக்கிறது

- A. Mechanical B. Electrical  
C. Radar Sensor D. Electronic

- 61 WDG4 लोकोमोटिव में कितने पावर कॉन्टैक्टर उपलब्ध हैं?  
How many Power Contactors are available in WDG4 Locomotive?  
WDG4 இன்ஜினில் எத்தனை பவர் காண்டாக்டர்கள் உள்ளன?  
A. 8 B. 9  
C. 0 D. 6
- 62 WDG4 लोको की ल्यूब ऑयल SUMP क्षमता क्या है?  
What is the lube oil SUMP capacity of WDG4 loco?  
WDG4 லோகோவின் லூப் ஆயில் SUMP திறன் என்ன?  
A. 1000 litres B. 1100 litres  
C. 1457 litres D. 910 litres
- 63 WDP 4 और WDG 4 लोकोमोटिव में कंप्रेसर में शीतलक का उपयोग किया जाता है  
In the WDP 4 & WDG 4 locomotive the coolant used in compressor is  
WDP 4 & WDG 4 இன்ஜினில் அழுக்கியில் பயன்படுத்தப்படும் குளிர்நீர்  
A. Engine coolant B. Compressor coolant  
C. Raw water D. None of the these
- 64 एयर कंप्रेसर चिकनाई तेल नाबदान क्षमता है  
Air compressor lube oil sump capacity is  
ஏர் கம்பர்சர் லூப் ஆயில் சம்ப திறன் உள்ளது  
A. 10 litres B. 12 litres  
C. 15 litres D. 23 litres
- 65 HHP लोकोमोटिव में एयर ब्रेक को नियंत्रित किया जाता है  
In HHP locomotive Air brake is controlled by  
HHP இன்ஜினில் ஏர் பிரேக் கட்டுப்படுத்தப்படுகிறது  
A. Electrically B. Mechanically  
C. Computer D. None of these
- 66 WDP4 और WDG4 लोको में ब्रेक सिस्टम है  
Brake system in WDP4 & WDG4 loco is  
WDP4 & WDG4 லோகோவில் பிரேக் சிஸ்டம் உள்ளது  
A. 28LAV-1 B. 28LV-1  
C. CCB-KNORR D. None of these
- 67 WDP4/WDG4 में जब लॉकड एक्सल के कारण लगातार व्हील स्लिप का अनुभव होता है  
In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle  
WDP4/WDG4 இல், பூட்டப்பட்ட அச்சின் காரணமாக தொடர்ச்சியான சக்கர சறுக்கல் ஏற்படும் போது  
A. Isolate the defective TM B. Isolate the defective speed sensor  
C. Fail the loco immediately D. Isolate the defective truck



- 68 वाय पास साइट ग्लास में तेल की दृश्यता इसका संकेत देती है  
Oil visibility in bye pass sight glass indicates that  
பை பாஸ் பார்வை கண்ணாடியில் உள்ள எண்ணெய் தெரிவுநிலை அதைக் குறிக்கிறது  
A. Primary filter is choked B. Spin on filter choked  
C. Lube oil filter choked D. Lube oil strainer choked
- 69 WDP4/WDG4 लोको में ईंधन तेल के प्राथमिक फिल्टर के चोक होने का संकेत मिलता है  
In WDP4/WDG4 loco choking of fuel oil primary filter is indicated by  
WDP4/WDG4 இல் எரிபொருள் எண்ணெய் முதன்மை வடிகட்டியின் லோகோ மூச்சுத் திணறல் குறிக்கப்படுகிறது  
A. Filter condition guage B. Oil visibility in bye pass sight glass  
C. Both A & B D. Oil visibility in sight glass near to engine block
- 70 यदि AGFB WDP4/WDG4 लोको में फिसल गया  
If AGFB tripped in WDP4/WDG4 locos  
WDP4/WDG4 லோகோக்களில் AGFB தடுமாறினால்  
A. Battery will discharge B. Load meter will not respond  
C. Both A and B D. Engine will shut down
- 71 एसी ऑक्स का संशोधित वोल्टेज। WDG4 लोको में जेनरेटर  
Rectified Voltage of AC Aux. Generator in WDG4 Loco  
ஏசி ஆக்ஸின் சரிசெய்யப்பட்ட மின்னழுத்தம். WDG4 லோகோவில் ஜெனரேட்டர்  
A. 64VDC B. 55V AC  
C. 74VDC D. None of these
- 72 WDP4 लोको में ट्रैक्शन मोटर लगी हुई है  
In WDP4 Locos Traction Motor fitted on  
WDP4 இல் லோகோஸ் டிராக்ஷன் மோட்டார் பொருத்தப்பட்டுள்ளது  
A. Axles no.1, 2 & 5, 6 B. All axles  
C. Axles no.1, 2 & 3, 4 D. None of these
- 73 WDP4 लोको इंजन में स्टार्टिंग स्विच स्थित होता है  
In WDP4 Locos Engine starting switch is located  
WDP4 இல் Locos இன்ஜின் தொடக்க சுவிட்ச் அமைந்துள்ளது  
A. ECP B. Engine room  
C. Control stand D. None of these
- 74 WDG4 लोको का ट्रैक्टिव प्रयास शुरू हो रहा है  
Starting Tractive effort of WDG4 Loco is  
WDG4 லோகோவின் டிராக்டிவ் முயற்சியைத் தொடங்குதல்  
A. 540KN B. 270KN  
C. 400KN D. 200KN

- 75 WDP4/WDG4 में यदि GR (पावर) 10 मिनट के भीतर लगातार तीन बार ट्रिप करता है  
In WDP4/WDG4 if GR (power) trips continuously three times within 10 minutes  
WDP4/WDG4 இல் GR (பவர்) 10 நிமிடங்களுக்குள் தொடர்ந்து மூன்று முறை  
பயணித்தால்
- A. Truck isolation is to be done B. Defective TM is to be isolated  
C. Defective speed sensor is to be isolated D. Fail the Loco
- 76 WDP4/WDG4 इंजन क्रैंकिंग के कारण प्रारंभ नहीं हो रहा है  
In WDP4/WDG4 engine cranking but not starting due to  
WDP4/WDG4 இன்ஜின் கிரான்கிங் ஆனால் ஸ்டார்ட் ஆகவில்லை
- A. EPD Tripped B. Governor not advancing fuel racks  
C. No fuel reaching in the cylinders D. Any one of above
- 77 डीजल लोको में किस प्रकार की स्नेहन प्रणाली का उपयोग किया जा रहा है?  
What is the type of lubrication system being used in diesel loco  
டீசல் லோகோவில் என்ன வகையான லூப்ரிகேஷன் சிஸ்டம்  
பயன்படுத்தப்படுகிறது
- A. Gravity lubrication B. Force Feed lubrication  
C. Force Feed & splash lubrication D. Capillary lubrication
- 78 WDP4/WDG4 पहियों पर हैंड ब्रेक लागू होता है  
WDP4/WDG4 Hand break applies on wheels  
WDP4/WDG4 கை முறிவு சக்கரங்களில் பொருந்தும்
- A. L5 B. R5  
C. R4 D. L4
- 79 ऑटो फ्लैशर ऑपरेशन का क्या प्रभाव पड़ता है?  
What is the effect of auto flasher operation  
ஆட்டோ ஃப்ளாஷர் செயல்பாட்டின் விளைவு என்ன
- A. Engine comes to idle B. Auto flasher indication  
C. Buzzer D. All of above
- 80 एचएचपी लोकोमोटिव के नाम से भी जाना जाता है  
HHP Locomotive is also known as  
HHP லோகோமோட்டிவ் என்றும் அழைக்கப்படுகிறது
- A. EMD Locomotive B. GM Locomotive  
C. G4/P4 Locomotive D. All of the above.
- 81 सैंडर को संचालित करने के लिए वायु आपूर्ति प्राप्त होती है  
To operate sander, air supply is received from  
சாண்டரை இயக்க, காற்று சப்ளை பெறப்படுகிறது
- A. MR-1 Pressure B. MR-2 Pressure  
C. BP Pressure D. B.C. Pressure
- 82 S-1313 फॉर्म का उपयोग किया जाता है  
S-1313 form used for  
S-1313 படிவம் பயன்படுத்தப்பட்டது



- A. Stocked item  
B. Non-stocked item  
C. Local purchase  
D. Short tender
- 83 स्टेशन सीमा में ट्रेन के टीई को अलग करने से पहले कितने वैगन हैंड ब्रेक लगाए जाएंगे, जहां ढाल 1/260 से अधिक तीव्र है  
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  
1/260க்கு மேல் சாய்வு செங்குத்தாக இருக்கும் நிலைய வரம்பில் ஒரு ரயிலின் TE ஐ பிரிப்பதற்கு முன் எத்தனை வேகன்கள் கை பிரேக்குகள் பயன்படுத்தப்படும்  
A. BV + 12 wagons  
B. BV + 06 wagons  
C. Only BV  
D. BV + 18 wagons
- 84 अधिकतम. WDM3D लोको में ब्रेक सिलेंडर का दबाव \_\_\_\_\_ होता है  
Max. Brake Cylinder pressure is \_\_\_\_\_ in WDM3D loco  
அதிகபட்சம். WDM3D லோகோவில் பிரேக் சிலிண்டர் அழுத்தம் \_\_\_\_\_ ஆகும்  
A. 2.5 Kg/cm<sup>2</sup>  
B. 3.5 Kg/cm<sup>2</sup>  
C. 1.5 Kg/cm<sup>2</sup>  
D. 3.0 Kg/cm<sup>2</sup>
- 85 WDG4 लोको में जब PCS नॉक आउट हो जाता है, पेनल्टी रीसेट द्वारा रीसेट करने में असमर्थ होता है, तो \_\_\_\_\_  
In WDG4 loco when PCS is knocked out, unable to reset by penalty reset, then \_\_\_\_\_  
WDG4 லோகோவில் PCS நாக் அவுட் செய்யப்பட்டால், பெனால்டி ரீசெட் மூலம் மீட்டமைக்க முடியவில்லை, பிறகு \_\_\_\_\_  
A. MAB breaker should be recycled  
B. TCC breaker should be recycled  
C. Air drier breaker  
D. Both A & B
- 86 एचएचपी लोको में, ईसीसी-2 स्थित हैं  
In HHP Locos, ECC-2 are located in  
HHP Locos இல், ECC-2 அமைந்துள்ளது  
A. Driver cabin  
B. Under Truck  
C. Near Radiator room  
D. None of these
- 87 एचपीटी में जारी क्लोज्ड सर्किट BOXN रेक के लिए जारी BPC की वैधता क्या है?  
What is the validity of BPC issued for closed circuit BOXN rakes issued in HPT?  
HPT இல் வழங்கப்பட்ட மூடிய சுற்று BOXN ரேக்குகளுக்கு வழங்கப்படும் BPC இன் செல்லுபடியாகும்?  
A. 7500 kms or 35 days  
B. 6000 kms or 30 days  
C. Both A & B  
D. None of the above
- 88 यात्री ले जाने वाली ट्रेन की आवश्यक ब्रेक पावर \_\_\_\_\_ होगी और सीसी रेक मालगाड़ी के लिए प्रारंभिक स्टेशन पर \_\_\_\_\_ होगी  
The required brake power of passenger carrying train shall be \_\_\_\_\_ and for a CC rake goods train shall be \_\_\_\_\_ at originating station  
பயணிகளை ஏற்றிச் செல்லும் ரயிலின் தேவையான பிரேக் பவர் \_\_\_\_\_ ஆகவும், சிசி ரேக் சரக்கு ரயிலுக்கு \_\_\_\_\_ ஆகவும் இருக்க வேண்டும்.  
A. 100%-100%  
B. 85%-100%

- C. 90%-50% D. 100% - 85%
- 89 WDG4 लोकोमोटिव में ECC की कुल संख्या  
Total no.of ECC in WDG4 locomotive  
WDG4 இன்ஜினில் ECC இன் மொத்த எண்ணிக்கை  
A. 3 B. 2  
C. 1 D. 4
- 90 चाइल्ड केयर लीव के तहत पूरे कार्यकाल में कितने दिन दिए जाते हैं?  
How many days are granted in entire tenure under Child Care Leave  
குழந்தை பராமரிப்பு விடுப்பின் கீழ் முழு பதவிக்காலத்திலும் எத்தனை நாட்கள் வழங்கப்படுகிறது  
A. 730 B. 365  
C. 300 D. 600
- 91 गेट सिग्नल की पहचान \_\_\_\_\_ द्वारा की जाती है।  
Gate signal is identified by \_\_\_\_\_  
கேட் சிக்னல் \_\_\_\_\_ மூலம் அடையாளம் காணப்படுகிறது.  
A. G Marker B. P marker  
C. IB Marker D. ID Marker
- 92 सिग्नल चेतावनी बोर्ड स्टॉप सिग्नल से पहले \_\_\_\_\_ मीटर की दूरी पर स्थित होता है।  
Signal warning board is located at a distance of \_\_\_\_\_ meters before a stop signal.  
சிக்னல் எச்சரிக்கை பலகை நிறுத்த சமிக்ஞைக்கு முன் \_\_\_\_\_ மீட்டர் தொலைவில் அமைந்துள்ளது.  
A. 1500 meters B. 1200 meters  
C. 1400 meters D. None of these
- 93 जब कोई सिग्नल नया खड़ा किया जाता है या स्थानांतरित किया जाता है, तो \_\_\_\_\_ दिनों की अवधि के लिए सावधानी आदेश दिया जाएगा।  
When a signal is newly erected or shifted, caution order shall be given for a period of \_\_\_\_\_ days.  
ஒரு சிக்னல் புதிதாக அமைக்கப்பட்டால் அல்லது மாற்றப்படும்போது, \_\_\_\_\_ நாட்களுக்கு எச்சரிக்கை உத்தரவு கொடுக்கப்படும்.  
A. 8 B. 90  
C. 15 D. None of these
- 94 45 लाख रुपये से अधिक के नॉन स्टॉक इंडेंट को मंजूरी देनी होगी  
Non stock indents above Rs 45 lakhs have to be approved by  
45 லட்சத்துக்கும் மேலான பங்கு அல்லாத உள்தள்ளல்கள் அங்கீகரிக்கப்பட வேண்டும்  
A. JAG officer B. ADRM  
C. PHOD/CHOD of department D. None of the above
- 95 यदि CC रेक TXR यार्ड में \_\_\_\_\_ घंटे से अधिक समय तक स्थिर रहता है तो BPC अमान्य हो जाएगी



If CC rake is stabled for more than \_\_\_\_\_ hrs in TXR yard BPC will become invalid  
 TXR யார்டில் \_\_\_\_\_ மணிநேரத்திற்கு மேல் CC ரேக் நிலையாக இருந்தால் BPC செல்லாததாகிவிடும்

- A. 24 B. 8  
 C. 12 D. 16

96 किसी सिग्नल के समान पहलुओं के प्रकट होने और गायब होने को कहा जाता है  
 Appearance and disappearance of same aspects of a signal is known as  
 ஒரு சமிக்ஞையின் அதே அம்சங்களின் தோற்றம் மற்றும் மறைதல் என அறியப்படுகிறது

- A. Aspect B. Indication  
 C. Bobbing D. Flickering

97 डीम्ड निलंबन का आदेश जारी करने के लिए किस मानक प्रपत्र का उपयोग करना आवश्यक है?

Which of the standard form is required to be used for issuing the order of deemed suspension?

டீம்ட் சஸ்பென்ஷன் ஆர்டரை வழங்குவதற்கு எந்த நிலையான படிவத்தைப் பயன்படுத்த வேண்டும்?

- A. SF-1 B. SF-3  
 C. SF-2 D. SF-4

98 जब एक रेलवे कर्मचारी को निलंबित कर दिया गया है लेकिन केवल मामूली जुर्माना लगाया गया है, निलंबन अवधि का उपचार इस प्रकार है

When a Rly. Employee placed under suspension but only a minor penalty is imposed, the treatment of the suspension period is as

ஒரு Rly போது, பணியாளர் இடைநீக்கத்தின் கீழ் வைக்கப்பட்டார், ஆனால் ஒரு சிறிய அபராதம் மட்டுமே விதிக்கப்படுகிறது, இடைநீக்க காலத்தின் சிகிச்சை பின்வருமாறு

- A. Dies non B. Non duty  
 C. Duty D. None

99 एक सेवानिवृत्त रेलवे कर्मचारी एक समय में कितने मामलों को रक्षा सहायक के रूप में निपटा रहा है?

How many cases are dealing a retired Railway employee as a defense assistant at a time?

ஓய்வு பெற்ற ரயில்வே ஊழியரை ஒரே நேரத்தில் பாதுகாப்பு உதவியாளராக எத்தனை வழக்குகள் கையாள்கின்றன?

- A. 3 B. 4  
 C. 5 D. 7

100 प्रमुख दंड प्रभार जापन के साथ कितने अनुबंध संलग्न हैं?

How many Annexures are attached with major penalty charge memorandum?

பெரிய அபராதக் கட்டண குறிப்புடன் எத்தனை இணைப்புகள் இணைக்கப்பட்டுள்ளன?

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

- 101 அலுவலக மொழி பயன்பாடு குறித்த முக்கிய முடிவுகளை எந்த அமைச்சகம் எடுக்கும்?  
 राजभाषा संबंधी मुख्य नरिणय कौन सा मंत्रालय लेता है?  
 Which ministry takes important decisions pertaining to official Language?  
 A) Ministry of Home Affairs B) Ministry of Railways  
 C) Ministry of Tourism D) None of the above
- 102 அலுவலக மொழி தொடர்பான நாடாளுமன்றக் குழுவில் உள்ள மக்களவை உறுப்பினர்களின் எண்ணிக்கை எவ்வளவு?  
 राजभाषा की संसदीय समिति में लोक सभा के कतिने सदस्य होते हैं?  
 How many Lok-Sabha members are there in the parliamentary committee on Official-Language?  
 A) 15 B) 20  
 C) 22 D) 27
- 103 தனியார் முயற்சியில் பிரவீன் தேர்வில் தேர்ச்சி அடைந்தவர்களுக்குவழங்கப்படும் விருது தொகை எவ்வளவு?  
 नजि प्रयास से प्रवीण परीक्षा पास करने पर एकमुश्त पुरस्कार की राशि कतिनी है?  
 What is the amount of Lump sum Award for passing Praveen Examination through private efforts?  
 A) Rs.1600 B) Rs. 1500  
 C) Rs. 2000 D) Rs. 2500
- 104 அரசியலமைப்பின் 17வது பிரிவில் உள்ள ஆர்ட்டிகிள்களின் எண்ணிக்கை  
 संवधिान के भाग XVII में कतिने अनुच्छेद हैं?  
 How many articles are there in the part XVII of the constitution?  
 A) 8 B) 24  
 C) 9 D) 10
- 105 நகர அலுவலக மொழி நடைமுறைப்படுத்தும் கமிட்டியின்கூட்டம் நடைபெறும் கால அளவு  
 नगर राजभाषा कार्यानवयन समिति की बैठक आवधकिता क्या है?  
 What is the periodicity of the meeting of Town official Language Implementation Committee?  
 A) Once in two months B) Once in three months  
 C) Once in four months D) Once in six months
- 106 அலுவலக மொழி சட்டத்தின்படி அந்தமான் நிக்கோபார் எந்த மண்டலத்தில் இடம்பெற்றுள்ளது?  
 राजभाषा नियमों के अनुसार अंडमान और नकिोवार कमि क्षेत्र में रखा गया है?  
 Which region Andaman and Nicobar is situated according to Official Language Rules?  
 A) Region A B) Region B  
 C) Region C D) Region D
- 107 அரசியல் சாசனத்தின் எட்டாவது பிரிவில் தற்போது குறிப்பிடப்படும் மொழிகளின் எண்ணிக்கை?  
 वर्तमान में संबधिान की आठवीं अनुसूची में कतिनी भाषाएं सम्मलिति है?  
 At present how many languages are enlisted in the Eighth schedule of the constitution?  
 A) 18 B) 24  
 C) 22 D) 27



- 108 ஹிந்தியில் வரப்பெறும் கடிதங்களுக்கு எந்த மொழியில் பதில் அனுப்பப்படும் ?  
हंदी में प्राप्त पत्रों का उत्तर किस भाषा में दिया जाना चाहिए?  
In which Language we have to reply if the letter received in Hindi?  
A) Regional Language B) English  
C) Hindi D) Hindi and English
- 109 குறிப்பிட்ட அமைச்சகத்தில் ஹிந்தி மொழியின் பயன்பாடு மற்றும் வளர்ச்சி குறித்து பரிசீலித்து மீள்பார்வை செய்யும் கமிட்டி எது?  
किसी वशिष मंत्रालय के लिए कौन सी समिति हंदी के प्रसार की समीक्षा करती है?  
Which Committee review the progress made in the propagation of Hindi in the particular Ministry?  
A) Central Hindi Committee B) ZOLIC  
C) TOLIC D) Hindi Salahkar Samithi
- 110 அரசியலமைப்பின் 17வது டேட்டாபார்ட் நாடாளுமன்றத்தில் நிறைவேறிது.....  
संवधान का भाग XVII संसद में किस तारीख को पास हुआ?  
On which date part XVII of the constitution was passed in parliament?  
A) 14 Nov 1949 B) 14 Sep 1949  
C) 26 Jan 1950 D) 15 Aug 1947

4

**SOUTHERN RAILWAY**  
**Examination for the Post of JE/DSL/Mech./TNP**

Date : 28/05/2019

**DURATION: 120 mts**

**MARKS : 100**

**Instructions to Candidates.**

- a) "Candidates should write their name, designation, office, roll number/staff number, etc., ONLY in the space provided in the fly leaf and not in any of the page in the answer books or additional sheets".
- b) Any names/roll numbers if found in the answer books or additional sheets, such papers will be disqualified.
- c) In the answers to the objective type questions, no correction of any type is permitted. In case any correction is made, that answer shall not be evaluated at all for e.g. Corrections made in the objective type questions like (a) cutting (b) overwriting (c) erasing (d) scoring off a ticked answer in multiple choice and ticking another answer and (e) modifying the answer in any way will not be evaluated at all".
- d) The questions on official language are not compulsory and the evaluation will be made only in respect of questions for 100 marks.
- e) **Each question carries one mark. There shall be negative marking for incorrect answers. One third of the marks allotted for each questions will be deducted for wrong answers. Cutting, overwriting, erasing or alternation of any type in the answer, will not be accepted to ensure authenticity of the answers. Zero marks has to be given for answer having correction/overwriting.**



1. Maximum exhaust gas temperature of WDM<sub>3A</sub> loco is \_\_\_\_\_ °C.  
A) 525      B) 620      C) 425      D) 800
2. Dead man regulator is available in \_\_\_\_\_ control portion of CCB version 2.0.  
A) ER    B) BP                      C) 16 CR    D) KE valve
3. ALCO loco new injector nozzle opening pressure is \_\_\_\_\_ psi  
A) 4050      B) 5000                      C) 6000      D) 8000
4. During which inward stroke of diesel engine operation both inlet and exhaust valves are closed ?  
A) Suction    B) Compression    C) Exhaust    D) Power
5. Low viscosity indicates  
A) mixing of water in lube oil                      B) mixing of fuel in lube oil  
C) mixing of carbon content in lube oil              D) none of the above
6. The torque value of Gear case bolts of WDM<sub>2</sub> bogies is  
A) 600-700 ft.lbs.                                      B) 1000-1200 ft.lbs  
C) 1400-1600 ft.lbs                                    D) 350-500 ft. lbs.
7. Which type of bogie is used in HHP locomotive.  
A) Fabricated bogie                                    B) Cast steel  
C) High tensile cast steel                            D) None of these
8. In the fuel oil system which type of injectors provided in the HHP locomotive.  
A) Unit injectors                                      B) Injectors with HP line  
C) Injector with cam                                    D) None of these
9. What is the compression ratio of the GM locomotive.  
A) 16:1      B) 14:1      C) 13:1                      D) 15:1

10. In the HHP two stroke engine the cylinder head of the engine equipped with

- A) Inlet & Exhaust valves
- B) Only Inlet valves
- C) Only Exhaust valves
- D) None of these

11. ALCO Water pump is driven from \_\_\_\_\_.

- A) Split gear
- B) Cam gear
- C) Extension shaft gear
- D) Main generator gear

12. How many main bearing are available in crank shaft of HHP locomotives ?

- A) 8
- B) 9
- C) 10
- D) 16

13. On operating D-1 emergency which pressure drops ?

- A) MR
- B) BP
- C) HS-4
- D) No air supply

14. How many braking position a A-9 valve have.

- A) 05 position
- B) 04 position
- C) 03 position
- D) 01 position

15. How many braking position a SA-9 valve have.

- A) 03 position
- B) 02 position
- C) 05 position
- D) 01 position

16. Duplex check valve operates when MR pressure reaches \_\_\_pressure(kg/cm<sup>2</sup>).

- A) 5 kg/cm<sup>2</sup>
- B) 6 kg/cm<sup>2</sup>
- C) Always open
- D) 10 kg/cm<sup>2</sup>

17. R-6 relay valve is fitted in loco for.

- A) Quick MR charging
- B) Quick working of AFMV valve
- C) Quick vacuum building
- D) By passing AFMV

18. In case of pure air brake loco with load at the time of train parting, which safety valve is operates and brings the loco to idle.

- A) H-5 relayvalve
- B) HB-5 relayvalve
- C) Airflow measuring valve
- D) F1 selector valve

19. How many numbers of positions MU2B valve have

- A) One position
- B) Two
- C) Three
- D) Four



20. Wiper gets the air supply from.....  
A) MR-1      B) MR-2      C) BP pressure      D) HS-4 valve
21. During which stroke inlet valves open  
A) Suction      B) Compression      C) Power      D) Exhaust
22. Honey combing is related with \_\_\_\_\_  
A) Cylinder head    B) Piston    C) Liner    D) Connecting rod
23. In WDM3A loco, how many thrust bearings are used  
A) 2 Nos      B) 1 No      C) 3 Nos      D) NONE
24. How many stiffer cam segments are fitted in WDM-3D loco.  
A. 6 Nos      B) 7 Nos      C) 16Nos      D) 10 Nos
25. In WDM-3A loco, which type of lubrication system is used?  
A) SplashType      B) Forced feed  
C) Self lubricated      D) None of these
26. Crank shaft vibration damper is fitted with crank shaft with the help of.....  
A) Key      B) Dowel      C) Nuts & Bolts      D) None of these
27. What is the BHP of WDM3A loco?  
A) 2300      B) 2400      C) 2600      D) 3100
28. Universal shaft is used to drive radiator fan because  
A) It is rigid      B) It is strong  
C) It is self aligning      D) It is weak
29. For the same HP and bore size, which engine will be heavier.  
A) Petrol engine      B) Diesel engine  
C) Jet engine      D) None of the above

30. What is compression ratio of WDM2 Locomotive ?

- A) 12.0:1
- B) 11.5: 1
- C) 12.5:1
- D) 13.0: 1

31. BAP is not building up due to.....

- A) TSC rotor jam
- B) Governor defective
- C) Air Intel gasket burst
- D) Any one of the above

32. HHP loco water temperature is maintained between \_\_\_° and \_\_\_° temperature.

- A) 79-85
- B) 85-90
- C) 90-95
- D) 68-70

33. How many piston rings are fitted in the HHP engine piston \_\_\_\_\_

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

34. Internal cracks in the axle are detected by \_\_\_\_\_ test

- A) DPT
- B) Ultrasonic
- C) Zyglo
- D) Magnetic particle test

35. HHP loco left side cam gear driven by \_\_\_\_\_

- A) No 2 idle gear
- B) No 1 idle gear
- C) Right side cam gear
- D) Crank shaft gear

36. What is the unit of SFC ?(Specific Fuel consumption)

- A) gm/hp/hr.
- B) Liters/Kwhr/minutes
- C) Kg/Newton/hr
- D) None

37. Which of the following is primemover

- A) Engine
- B) Traction Generator
- C) Traction Motor
- D) None of the above

38. In ALCO locomotives the Diameter of new wheels are \_\_\_ mm.

- A) 1092
- B) 1100
- C) 1030
- D) 1060



39. The more Oxygenated Air is required for better\_\_\_\_.
- A) Control air pressure                      B) Combustion of fuel  
C) Braking                                      D) Cooling
40. In ALCO fuel oil system \_\_\_\_\_type of filters are used.
- A) Sock type      B) Foam type      C) Mesh type      D) Paper type
41. What is the Lubeoil capacity------(in litres) in WDM3A locomotives?
- A) 760                      B) 1050                      C) 1100                      D) 1457
42. If white smoke is emitting from exhaust chimney, what could be the reason?
- A) Water mixed with fuel oil      B) Governor oil mixed with fuel  
C) Lube oil mixed with fuel oil      D) None of these
43. The number of Brake cylinders provided on WDM3d locomotive is
- A) 6                      B) 8                      C) 10                      D) 12
44. Reduction in BP pressure causes \_\_\_\_\_.
- A) Brakes release                      B) Brakes slow release  
C) Brakes application                      D) MR pressure increasing
45. Number of brake blocks is provided on WDM3A is
- A) 16                      B) 24                      C) 32                      D) 22
46. The compressed air enters to MR1 tank through
- A) MR Safety valve                      B) MR2  
C) Cooling Coil                      D) 3 / 4" cut out
47. Inter cooler safety valve is set at \_\_\_\_\_ kg/cm<sup>2</sup> pressure.
- A) 10                      B) 4.2                      C) 10.5                      D) 5

48. Wheel arrangement in WDG4D/WDP4D locomotive is.  
A) CO-CO B) BO-BO C) BO1- BO1 D) None of these.
49. How many Radiator fans in the Dual cab locomotive?  
A) 1 B) 2 C) 3 D) 4
50. Fuel oil tank capacity of WDP4D loco is.  
A) 5000 Lts. B) 6000 Lts. C) 4500 Lts. D) None of these.
51. What is the compression ratio of WDP4 D & WDP4 B locomotives?  
A) 16:1. B) 14:1. C) 13:1. D) 15:1.
52. Which type of diesel engine is fitted in HHP locomotive?  
A) Four stroke. B) Three stroke. C) One stroke. D) Two stroke
53. How many cylinders are used in HHP Loco Engine?  
A) 16 Nos. B) 08 Nos. C) 12 Nos. D) 14 Nos.
54. What is the low IDLE speed RPM of the HHP locomotive engine  
A) 300 RPM. B) 200 RPM. C) 269 RPM. D) 904 RPM
55. The engine speed of WDP4B locomotive at 8<sup>th</sup> notch is  
A) 960 RPM B) 904 RPM C) 1050 RPM D) 1000 RPM
56. In the HHP locomotive the Turbo charger is driven by  
A) Exhaust Gas B) Gear Train  
C) Gear Train & Exhaust gas D) None of these
57. In HHP locomotive Air brake is controlled by.  
A) Mechanically B) Electrically C) Computer D) None of these
58. Brake system in WDP4 & WDG4 loco is  
A) 28LAV-1 B) 28LV-1. C) CCB-KNORR. D) None of these



59. Main parts of KNORR/NYAB CCB 1.5 Brake system are.  
A) VCU & CRU. B) PCU & KE Valve. C) BVC D) All of above
60. MR Pressure dropping on run due to.  
A) Air dryer defective B) Auto drain valve malfunctioning.  
C) Brake cylinder pipe damaged D) All of above.
61. The wheel diameter variation of WDM2 on same axle is permitted upto  
A) 2 mm B) 3 mm C) 4 mm D) 0.5 mm
62. Nos. of teeth of bull gear of WDM2 bogie is  
A) 62 B) 65 C) 68 D) 70
63. How much percentage of load does center pivot of WDM2 bogie carries  
A) 40% B) 50% C) 60 % D) 70%
64. Engine crankcase oil deteriorates in service on  
A) Contamination by blow-by products of combustion  
B) Wear metal particles  
C) Contamination by fuel and cooling water  
D) All the above
65. Brand of Oil used in diesel engine crankcase is  
A) RR407 B) Syngear 460RR  
C) RR606 MG D) Servo Prime 100R
66. Blotter spot test conducted in lube oil to check  
A) Dispersancy characteristics B) Detergency characteristics  
C) Fluidity characteristics D) None of the above
67. Which test is the predictive tool for diesel loco engine maintenance  
A) Magnetic particle test B) Radiography  
C) Dye penetrant test D) Spectrography

68. Presence of Sn, Pb & Cu in engine lube oil indicates wear of

- A) FIP support Bush
- B) Cam lobe
- C) Trimetal bearing
- D) Cylinder liner

69. Free length of Engine Connecting bolts length found above 11.004" indicates

- A) Oversize bolt
- B) Standard size bolt
- C) Bolt taken Permanent set
- D) Bolt for HHP loco

70. Mean Pore Size of fuel oil Primary filter is

- A) 0.010" - 0.016"
- B) 10-16 Microns
- C) 10" - 16"
- D) None of the above

71. Surging of turbocharger occurs when

- A) Turbine nozzle ring carbonized
- B) Air intake filter clogged
- C) Valve timing disturbed
- D) Any of the above

72. RDSO recommended sequence of setting of Over speed tripping in ALCois

- A) MCBG -Mechanical OST- MBCS
- B) Mechanical OST -MCBG - MBCS
- C) Mechanical OST- MBCS-MCBG
- D) MBCS-MCBG-Mechanical OST

73. Which locomotive variant is having high starting Tractive effort

- A) WAG9
- B) WDG4
- C) WDS6
- D) WDG3A

74. POH periodicity of ALCO diesel locomotives

- A. 10 lakh KM or 8 years, whichever is earlier
- B. 8 Lakh KM or 10 years, whichever is earlier
- C. 10 lakh KM or 8 years, whichever is later
- D. 8 lakh KM or 8 years, whichever is later

75. In ALCO diesel locomotives Auto Frettaged tubes are used for

- A) Fuel jumper pipe
- B) Fuel High pressure pipe
- C) Fuel cross over pipe
- D) Fuel header pipe



76. Type of water pump shaft used in ALCO diesel locomotives
- A) Sleeve type                      B) Sleeveless solid type  
C) Hollow type                      D) None of the above
77. Diesel loco outage is the term refers to
- A) Diesel loco availability for Train service  
B) Diesel loco availability for Passenger service  
C) Diesel loco availability for Freight service  
D) All the above
78. Ineffective percentage permitted by Railway Board for HHP loco is
- A) 5%                      B) 10%                      C) 12.5%                      D) 8%
79. RDSO recommended material for Gearcase wiper ring sealing is
- A) PTFE                      B) Felt                      C) TPU                      D) Any of the above
80. Name the material the Exhaust valves are made of
- A) Weltite                      B) Inconel                      C) Stellite                      D) None of the above
81. Which of the following are deemed as a Must change items during diesel loco heavy schedule maintenance
- A) Flexible hoses, Gaskets, Rubber seals,  
B) Wear liners, Small bearings  
C) Overhauling kits of Air brake valves, Air dryers, Compressors  
D) All the above
82. Which of the standards are part of Integrated Management System (IMS)
- A) ISO:9001                      B) ISO:14001  
C) OHSAS:18001                      D) All the above
83. ISO:50001 is given to an organisation for
- A) Environment Management System  
B) Energy Management System  
C) Work Management System  
D) Integrated Management System

84. The gear ratio of modified gear train consisting Water pump drive gear, Extension shaft gear & Lube oil pump drive gear of ALCo locomotive

- A) 19:92      B) 67:79:46      C) 63:83:42      D) 18:77

85. During load testing of ALCo diesel locomotive the voltage and current readings observed are 600V & 3200A respectively. Calculate the output.

- A) 1920 KW      B) 3100KW      C) 2600HP      D)1920W

86. To operate sander valve the air supply is received from

- A) MR-1 pressure      B) MR-2 pressure
- C) BP pressure      D) Brake cylinder pressure

87. Anti collision device (ACD) was developed by

- A) KRCL      B) SR      C) WR      D) SCR

88. Diesel organization at Zonal Level is headed by

- A) CMPE      B) CRSE      C) CWE      D) CWM

89. In turbo run down test minimum time allowed for free running is

- A) 90 seconds      B) 120 seconds
- C) 150 seconds      D) 160 seconds

90. The reason for nozzle dribbling is

- A) Improper pressure setting
- B) Dirt struck between valve and valve seat
- C) Valve sticking inside the valve body
- D) All of the above

91. The supercharged engines have

- A) Less power to weight ratio
- B) Poor scavenging in cylinders
- C) Better fuel efficiency due to complete combustion of fuel
- D) None of the above

92. MR safety valve in IRAB system operates when the MR pressure goes beyond

- A) 7.5 kg/cm<sup>2</sup>      B) 10.5 kg/cm<sup>2</sup>
- C) 5.5 kg/cm<sup>2</sup>      D) 5 kg/cm<sup>2</sup>



93. Which of the following is not item of fuel efficient loco
- A) Steel cap piston  
B) Modified FIP  
C) ALCO TSC  
D) Large After Cooler
94. Firing order of WDM 3A is
- A) 14768523 R/L  
B) 14758623 R/L  
C) 14768532 R/L  
D) 18254637R/L
95. Electro Pneumatic Governor is located in
- A) Expressorroom  
B) Radiator room  
C) Nose compartment  
D) Rear compartment
96. When LLOB trips, the engine will
- A) Raise  
B) Shut down  
C) Comes to Idle  
D) Hunting
97. In Wood word governor which solenoid is operated on operation of Low lube oil plunger
- A) C solenoid  
B) CD solenoids  
C) AD solenoids  
D) None
98. Low lube oil shut down pressure setting in WW governor fitted locomotive is
- A) 2.0 kg/cm<sup>2</sup> B) 1.3 kg/cm<sup>2</sup> C) 2.5 kg/cm<sup>2</sup> D) 3.0 kg/cm<sup>2</sup>
99. Hot Engine Alarm (HEA) will come at \_degrees centigrade in WDG3A locos
- A) 60  
B) 70  
C) 90  
D) 80
100. AEB stands for .....
- A) Auto Emergency Brake  
B) Air Emergency Brake  
C) Additional Emergency Brake  
D) Auto Electronic Brake
101. Which part of the constitution contains provisions regarding official Language?
- A) X  
B) XVII  
C) XVIII  
D) IX
102. When Hindi day is celebrated?
- A) 14<sup>th</sup> September  
B) 16<sup>th</sup> September  
C) 18<sup>th</sup> August  
D) 20<sup>th</sup> December

103. When the official language act was 1963 passed ?  
A) 20.06.1963                      B) 12.08.1963  
C) 10.05.1963                      D) 28.04.1963
104. How many languages are enlisted in the eighth schedule of Indian Constitution?  
A) 25                      B) 21                      C) 20                      D) 22
105. Which are the three regions as per the provisions made in the official language rules ?  
A) Regions A,B,C                      B) Regions A,B,D  
C) Regions E,F,G                      D) None of the above
106. In which region is Tamilnadu is located?  
A) Regions-A                      B) Regions -B  
C) Region-C                      D) None of the above
107. What is the order of the languages used in the name /notice boards ?  
A) Hindi, Regional language, English.  
B) Regional language, Hindi, English.  
C) English , Hindi, Regional language.  
D) Hindi, English , Regional language.
108. What are the hindi examinations conducted by the Department of official language, Ministry of Home affairs ?  
A) Prabodh.                      B) Praveen.  
C) Pragya.                      D) All of the above
109. Which state is coming under Region-C ?  
A) Gujarat.                      B) Orissa.  
C) Punjab.                      D) Bihar.
110. What is the cash award for being given for passing PRABODH hindi examination with 70 % or more marks ?  
A) Rs.1400.                      B) Rs.1600.  
C) Rs.2000.                      D) Rs.2400



**Question Paper for the Post of Junior Engineer/DSL/Mech/TNP in Level 6**  
**against 25% Promotional Quota**

1. WDG4D locomotive is fitted with.  
A. 16 cylinder 710G3B Diesel engine.                      B. 08 cylinder 710G3B Diesel engine.  
C. 12 cylinder 710G3B Diesel engine.                      D. 14 cylinder 710G3B Diesel engine.
2. Length of WDG4/WDP4B loco over buffer is.....  
A. 19964 mm.    B. 23002mm.    C. 20000mm.    D. 21000mm.
3. Maximum Tractive effort of WDG4 loco is.....  
A. 41 Tones.    B. 53Tones.    C. 50 Tones.    D. 123 Tones.
4. Maximum Tractive effort of WDP4B/WDP4D loco is.....  
A. 41 Tones.    B. 53 Tones.    C. 50 Tones.    D. 123Tones.
5. Which type of diesel engine model is fitted in HHP locomotive?  
A. ALCO-251.    B. GT46.    C. 710 G3B.    D. GT 46MAC.
6. How many cylinders are used in HHP Loco Engine?  
A. 16 Nos.    B. 08 Nos.    C. 12 Nos.    D. 14 Nos
7. In HHP Locos, Battery charger & Aux Gen CB are located in?  
A. ECC-1.    B. ECC-2.    C. ECC-3.    D. ECC-4.
8. In WDG4, when driver fails to acknowledge the alerter it gives audio warning for.....sec.  
A. 10.    B. 17.    C. 25.    D. 8.
9. For quick charging of BP in WDG4 .....is used.  
A. Foot pedal.    B. A9 release.    C. SP1/SP2.    D. None of these.
10. In WDG4, hot oil detector is set at.....degrees centigrade.  
A. 124.    B. 100.    C. 150.    D. 200.
11. What is the full speed RPM of WDP4/WDG4 locomotive engine.  
A.1000 RPM.    B. 904 RPM.    C. 900 RPM.    D. 950 RPM.

12. What is the IDLE speed RPM of the HHP locomotive engine?  
 A. 300 RPM.    B. 200 RPM.    C. 269 RPM.    D. 904 RPM.
13. In the fuel oil system, which type of injectors provided in HHP locomotive.  
 A. Unit injectors.                      B. Injectors with HP line.  
 C. Injector with cam.                      D. None of these.
14. In the two stroke engine, the cylinder head of the engine equipped with.  
 A. Inlet & Exhaust valves.              B. Only Inlet valves.  
 C. Only Exhaust valves.                  D. None of these.
15. In the WDP4 & WDG4 locomotive engine, how many lube oil pumps used.  
 A. One.              B. Two.              C. Three.              D. Four
16. Air compressor lube oil sump capacity of HHP loco is.....  
 A. 9.98 Liters.    B. 12 Liters.    C. 15 Liters.    D. 23 Liters.
17. How many brake cylinders are used per bogie of HHP loco?  
 A. 06 Nos.              B. 04 Nos.              C. 02 Nos.              D. 05 Nos.
18. Brake system in WDP4 & WDG4 loco is.  
 A. 28LAV-1.              B. 28LV-1.              C. CCB-KNORR.              D. None of these.
19. In HHP locomotive the first schedule carried out after.....  
 A. One month.    B. Three month.              C. Four month.              D. 15 Days.
20. In WDP4/WDG4, when continuous wheel slip is experienced due to locked axle.  
 A. Isolate the defective TM.              B. Isolate the defective speed sensor.  
 C. Fail the loco immediately.              D. Isolate the defective truck.
21. In WDP4/WDG4, loco if water pressure is less.  
 A. LLOB trips.                                      B. Low water pressure button will trip.  
 C. Crank case pressure button will trip.    D. Both A and B.
22. In WDP4/WDG4 loco, while conducting air brake self-test on working control stand.  
 A. A9 handle should be kept in run position.              B. SA9 handle should be kept in release position.  
 C. LT switch in trial position.                                      D. Both A and B.



23. In WDP4/WDG4 loco, when PCS is knocked out.
- A. MAB breaker should be recycled.                      B. TCC breaker should be recycled.  
C. Air drier breaker should be recycled.                D. Both A and B.
24. In WDP4/WDG4 loco, if LLOB is in tripped position during cranking engine will.
- A. Crank. B. Not Fire.    C. Not hold.    D. Not crank.
25. In WDP4/WDG4 loco during false locked axle indication.
- A. Isolate the defective truck.                      B. Isolate the defective speed sensor.  
C. Isolate the defective TM.                        D. Fail the loco.
26. In WDP4/WDG4 dead loco, for quick release of loco brakes \_\_\_\_\_ should be opened one side.
- A. MR equalizing cock.                                B. BC equalizing cock.  
C. BP equalizing pipe.                                 D. Both A & B
27. In WDP4/WDG4 Loco, when lube oil temperature exceeds 124 degree centigrade.
- A. Hot oil detector operates.                        B. LLOB operates.  
C. OSTA trips.    D. Both A and B.
28. In WDP4/WDG4 loco, choking of fuel oil primary filter is indicated by.
- A. Filter condition gauge.                            B. Oil visibility in bye pass sight glass.  
C. Both A & B.    D. Oil visibility in sight glass near to engine block.
29. Firing order of HHP Loco.
- A. 1,8,9,16,3,6,11,14,4,5,12,13,2,7,10,15.        B. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.  
C. 1,3,5,7,9,11,13,15,16,2,4,6,8,10,12,14 .        D. None of these.
30. Blended brake, Low water level switch, Temperature gauge & color code are provided in.
- A. WDP4.                      B. WDG4.                      C. Both A & B.                      D. None of these.
31. Max. Dynamic Tractive effort (Speed 40 KMPH to 0) of WDG4 Loco is.
- A. 540KN.                      B. 270KN.                      C. 400KN.                      D. 200KN.





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43. Gear ratio (Pinion Gear: Bull Gear) of WDG4D Locomotive is –

- A. 17:77      B. 18:65      C. 17:90      D. None of these.

44. In WDP4/4D Locomotive independent loco brake application time is –

- A. 7 – 9 seconds      B. 8 – 12 seconds      C. 16 – 30 seconds      D. 15 – 20 seconds.

45. Bevel gear is found in which component of HHP Locomotive?

- A. Governor Drive      B. Sun and planet gear      C. Scavenging pump      D. None of these.

46. In HHP Locomotive, which of the following valve is not used to convert MR Pressure to 6kg/cm<sup>2</sup> FP Pressure?

- A. FT-1 Feed Valve      B. F-2 Feed Valve      C. D24B Feed Valve      D. All of these.

47. Cooling time is related to –

- A. Lube oil cooler      B. Radiator      C. Turbo Supercharger      D. Compressor.

48. New wheel diameter of WDG4D Locomotive is –

- A. 1092mm      B. 1095mm      C. 1097mm      D. None of these

49. HHP Locomotive is fitted with –

- A. DURA Cam      B. FE Cam      C. Stiffer Unit Cam      D. All of these.

50. In ALCO locos, when emergency brake application is done through A- 9 in flasher light modified loco the condition of loco will be

- A. Loco comes to idle and nothing else happens      B. Loco comes to idle, flasher light is on  
C. Loco comes to idle, flasher light is on & buzzer blows      D. Loco does not come to idle, flasher light is on & buzzer blows

51. PATB buzzer blows when

- A. AFI needle is above 60      B. AFI needle is below 60  
C. AFI needle is above 80      D. AFI needle is above 70

52. Function of Air vacuum proportionate valve is in Diesel locos for

- A. Acceleration      B. Loco comes to idle  
C. For starting of loco      D. For synchronization of brake

53. Overcharging (In air brake system) feature is applied by which air brake valve
- A. C3 W distributor valve      B. VA-1B control valve  
C. C2-W relay valve      D. VA-1 release valve
54. In ALCO locos, Above C2- relay diaphragm air pressure comes from
- A. A-9 valve      B. SA-9 valve  
C. MR pressure      D. Synchronization on pressure
55. When H5 or HB-5 valve operates which air supply goes to PCS?
- A. MR Pressure      B. HS-4 pressure  
C. FP pressure      D. BP pressure
56. R-6 relay valve is fitted in loco for
- A. Quick MR charging      B. Quick working of AFMV valve  
C. Quick vacuum building      D. By passing AFMV
57. The standard Color of humidity indicator in ALCO locos air dryer is
- A. Orange      B. Purple      C. Blue      D. White
58. In dual brake ALCO loco, if combined strainer cock is kept in close position, action will be noticed
- A. Vacuum will not be shown in gauge      B. MR Pressure will drop  
C. Synchronization in loco will be cut off      D. BP will drop
59. Feed valve is charged from
- A. MR-1 tank      B. MR-2 tank      C. "J" filter      D. BP pipe
60. When driver is working from right control stand and A-9 is applied from left control stand in Emergency position, what will happen?
- A. Loco will come to idle      B. Loco will not come to idle  
C. Loco will shut down      D. Only BP will drop and nothing else will happen
61. During emergency braking the maximum air pressure in brake cylinder is \_\_\_\_\_
- A. 4 Kg/cm<sup>2</sup>      B. 5 Kg/cm<sup>2</sup>      C. 2 Kg/cm<sup>2</sup>      D. 3 Kg/cm<sup>2</sup>



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62. In, ALCO MR pressure outlet pipe of air flow measuring valve goes to..
- A. C-2 relay valve                      B. Add. C-2 relay valve  
C. A-9 brake valve                      D. SA-9 brake valve
63. In full service position of A-9 auto brake valve pressure reduction is between (PSI).....
- A. 18 to 21 psi    B. 23 to 26 psi    C. 30 to 33 psi    D. 35 to 38 psi
64. While keeping lead/trial switch in trail ER pressure is
- A. ER Pressure is less than 1 kg/cm<sup>2</sup>                      B. ER Pressure is zero  
C. ER Pressure is 3.5 kg/cm<sup>2</sup>                      D. ER Pressure is 5 kg/cm
65. BP pressure remains on which port of VA-1B control valve
- A. Port No.1                      B. Port No.2                      C. Port No.3                      D. Port No.6
66. In lead position of MU2B valve which ports dose not connect with each other
- A. 3&13                      B. 2&20                      C. 53&63                      D. 13&30
67. In WDG3A Locos, how many thrust bearing are used?
- A. 1 Nos.                      B. 2 Nos.                      C. None                      D. 3 Nos
68. How many cam segments are fitted in WDM3A loco?
- A. 6 Nos                      B. 7 Nos                      C. 8 Nos                      D. 10 Nos
69. In ALCO locos, during setting of cam gear timing which piston is kept at TDC
- A. R-1                      B. L-1                      C. R-8                      D. L-8
70. Main crankshaft vibration damper is fitted near which main bearings in WDM3A locos
- A. No-5                      B. No-7                      C. No-9                      D. No-1
71. In ALCO locos, Crankshaft vibration damper is fitted with crankshaft with the help of.....
- A. Key                      B. Dowel                      C. Nuts & Bolts                      D. None of these
72. How many cam lobes are in one cam segment
- A. 3                      B. 4                      C. 6                      D. 9
73. In WDM3D Loco, one exhaust manifold connects with how many cylinder Heads
- A. One                      B. Four                      C. Two                      D. Three

74. In ALCO locos, Water pump is driven from.....
- A. Split gear                      B. Cam gear    C. Extension shaft gear                      D. Main generator gear
75. What is the BHP of WDG3A loco?
- A. 4000                      B. 3600                      C. 3000                      D. 2800
76. Honey combing is related with .....
- A. Cylinder Head                      B. Piston                      C. Liner                      D. Connecting rod
77. In ALCO TSC, Rotor side, what is the material of oil seal?
- A. Aluminum                      B. Rubber Seal                      C. Brass Seal                      D. Carbon Seal
78. Universal shaft is used to drive radiator fan in ALCO Locos because
- A. It is rigid                      B. It is strong                      C. It is self-align                      D. It is weak
79. TSC surging on higher notches is due to .....
- A. Excess fuel rack                      B. Choked air mesh                      C. Less area of nozzle ring                      D. All the above
80. Smoke coming from "SMOKE" hole of cylinder Head indicates.....
- A. Injector seal is not proper    B. Over torqueing                      C. Injector crack                      D. Injector not fitted
81. In yearly loco, pre priming break in filters are used.....
- A. To arrest the foreign material                      B. To increase the pressure
- C. To maintain the pressure                      D. To avoid water contamination
82. Exhaust gas temperature at ALCO TSC inlet is .....
- A. 300°C                      B. 590°C                      C. 400°C                      D. 800°C
83. Engine crank case vacuum is not building up due to
- A. Linear chrome plating worn out                      B. Fuel motor not working
- C. Dust blower not working                      D. Engine RPM less
84. Engine giving blueish smoke indicates.....
- A. Water mix in fuel oil                      B. Injector hole chocked partially
- C. Cylinder head valve guide clearance more                      D. FIP delivery less
85. What is compression ratio of WDG3A?
- A. 12.0:1                      B. 11.5: 1                      C. 12.5:1                      D. 13.0: 1



64

86. Which of the following is not the safety item of locomotive

- A. OST                      B. LWS                      C. Governor                      D. AC

87. Which of the following is not item of fuel efficient loco

- A. Steel cap piston                      B. Modified FIP                      C. ALCO TSC                      D. Large After Cooler

88. What is the cause of increase silicon in lube oil?

- A. Linear wear                      B. X-head wear                      C. Dust                      D. Water leakage

89. In scavenging period burnt gases are pushed out by

- A. Fresh air                      B. By burnt gases                      C. By TSC                      D. Nothing of these

90. Low phasing means

- A. After burning of fuel                      B. Correct burning of fuel  
C. Without burning of fuel                      D. Nothing of these

91. Which item increases the sodium (Na) contains in lube oil

- A. Mixing of fuel oil in lube oil                      B. Mixing of Water in lube oil  
C. Mixing of Lube oil in fuel oil                      D. None of these

92. Centre pivot of bogie of WDM3A is located between

- A. Leading axles and middle axles                      B. Trailing axles and middle axles  
C. On the middle axle                      D. On the trailing axle

93. Which type of suspension in WDM3A loco bogie has

- A. Single stage                      B. Double stage                      C. Multi stage                      D. None of the above

94. In ALCO loco, Traction motor load of is transferred on bogie frame through

- A. Main journal                      B. Suspension nose                      C. Axle box                      D. Helical coil spring

95. Brake piston travel adjustment in WDM3A is recommended between

- A. 20mm to 30mm                      B. 10mm to 15 mm                      C. 67 to 100 mm                      D. 50mm to 200 mm

96. Nos. of teeth of bull gear of WDM3A bogie is

- A. 62                      B. 65                      C. 68                      D. 70

97. Bogie of WDM3A loco is designated as

- A. HTSC                      B. Fabricate                      C. Flexi-coil Mk-7                      D. Flexi-coil Mk-10

98. To transfer traction & breaking forces between bogie frame bolster and WDM3D loco bogie is provided with
- A. Guide link    B. Axle boxes    C. Damper    D. Traction rod
99. Expanded form of TBU is
- A. Truck brake unit                      B. Tread brake unit  
C. Terminal brake unit                    D. Thread brake unit
100. Traction and braking forces are transmitted from wheel-set to bogie frame through \_\_\_\_\_
- A. Hydraulic dampers.                    B. Rubber pads.  
C. Happy pads                                D. Horn guide.
101. Which part of the Constitution contains provisions regarding Official Language?
- A. Part XVII    B. Part XV    A. Part XVI    A. Part XVIII
102. On which date Part XVII of the Constitution was passed by Constituent Assembly?
- A.15.06.1950    B. 15.06.1949                    C.14.09.1950                    D. 14.09.1949
103. How many chapters are there in Part XVII of the Constitution?
- A.3 Chapters    B. 5 Chapters                    C. 4 Chapters                    D. 6 Chapters
104. How many articles are there in the Part XVII of the Constitution?
- A. 10 Articles    B. 9 Articles                    C. 8 Articles                    D. 7 Articles
105. What are all the nine Articles covered under Part XVII of the Constitution?
- A. Article 343 to 351    B. Article 353 to 361    C. Article 333 to 341    D. Article 323 to 331
106. When was the official Language Act, 1963 was amended?
- A.1964                    B.1969                    C. 1967                    D. 1965
107. How many States and Union Territories are there in Region 'A'?
- A. 9 States & 2 Union Territories.                    B. 7 States & 2 Union Territories.  
C. 9 States & 3 Union Territories.                    D. 7 States & 3 Union Territories.
108. Which Ministry takes important decisions pertaining to Official Language?
- A. Ministry of Finance                    B. Ministry of Home Affairs  
C. Ministry of Culture                    D. Ministry of Law & Justice



63

109. According to Official Languages Rules, Tamilnadu falls under which region?

- A. Region 'A'      B. Region 'C'      C. Region 'B'      D. None

110. According to Official Languages Rules, Andaman & Nicobar Islands fall under which region?

- A. Region 'A'      B. Region 'C'      C. Region 'B'      D. None

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**QUESTION PAPER FOR THE SELECTION FOR THE POST OF JE/DSL/MECH/ IN LEVEL 6 OF  
PAY MATRIX VII PC AGAINST 25% LDCE QUOTA,  
MECHANICAL DEPARTMENT, CHENNAI DIVISION**

DATE : 12.07.2023  
DURATION : 2 HRS

TIME: 14.30 hrs.  
MAXIMUM MARKS : 100

**FILL IN THE BLANKS**

1. The Gross Calorific Value of Diesel (H.S.D) oil is \_\_\_\_\_.

A	6000 Kcal/kg	B	10800 Kcal/kg
C	4000 Kcal/kg	D	5000 Kcal/kg

2. Unit of speed is \_\_\_\_\_.

A	M/sec.	B	KMPH
C	Both <i>A &amp; B</i>	D	M/sec <sup>2</sup>

3. What is Least Count of Micrometer?

A	1mm	B	0.02mm
C	0.01mm	D	0.1mm

4. DSL engine is based on \_\_\_\_\_ cycle.

A	Otto cycle	B	Dual cycle
C	Carnot cycle	D	Joule cycle

5. ALCO engine is based on \_\_\_\_\_.

A	Two stroke	B	Four stroke
C	Three stroke	D	No stroke

6. Unit of Youngs module is \_\_\_\_\_.

A	N/mm <sup>2</sup>	B	N/mm
C	N	D	Kg

7. In the Lathe only manual feed is given to \_\_\_\_\_.

A	Cross side	B	Compound rest
C	Tail stock	D	Chuck

8. Jig is used for \_\_\_\_\_ device.

A	Work holding	B	Tool guide
C	Both A and B	D	None

9. Convert 50°C to \_\_\_\_\_ K.

A	323K	B	50K
C	112K	D	273K

10. Melting temperature of Iron is \_\_\_\_\_.

A	1539°C	B	2400°C
C	2000°C	D	800°C

*Copy*



11. In the H.S.S. toll 18-4-1 what is 4?

A	% of Chromium	B	% of Tungsten
C	% of Vanadium	D	% of Iron

12. What is the tool inserts used in wheel lathe?

A	H.S.S. tool	B	High carbon tool
C	Carbide inserts	D	Brazed tool

13. Gear wheel is manufactured by \_\_\_\_\_ process.

A	Boring	B	Hobbing
C	Sloting	D	Lathe

14. Thermal efficiency of DSL engine is \_\_\_\_\_.

A	10% App	B	30-35% App
C	55% App	D	60% App

15. Quick return mechanism is used in which of the following machines?

A	Planning machine	B	Milling machine
C	Drilling machine	D	Boring machine

16. Wheel gauge of DSL loco wheel is \_\_\_\_\_.

A	1596±0.5mm	B	1602mm to 1599mm
C	1603mm	D	1560mm

17. Full wheel diameter of DSL loco wheel is \_\_\_\_\_.

A	1094mm	B	1000mm
C	1100mm	D	915mm

18. Gear teeth used in WDS<sub>6</sub> loco wheel has \_\_\_\_\_ teeth.

A	65 teeth	B	61 teeth
C	74 teeth	D	90 teeth

19. If speed of crank shaft is 1000rpm, the speed of cam shaft is \_\_\_\_\_.

A	2000 rpm	B	1500 rpm
C	1000 rpm	D	500 rpm

20. The type of bogie used in WDM<sub>2</sub> loco is \_\_\_\_\_.

A	Bo-Bo type	B	Co-Co type
C	Steel type	D	Cast steel bogie

21. EMD loco is based on \_\_\_\_\_ stroke engine.

A	Four stroke	B	Two stroke
C	Three stroke	D	Six stroke

22. Number of Cam bushes in one engine block (V type WDM<sub>2</sub>) loco is \_\_\_\_\_.

A	18 nos.	B	16 nos.
C	20 nos.	D	24 nos.

*Answer*

23. MR safety valve is set at a pressure of \_\_\_\_\_.

A	10.0 kg/cm <sup>2</sup>	B	6 kg/cm <sup>2</sup>
C	10.5 kg/cm <sup>2</sup>	D	5 kg/cm <sup>2</sup>

24. Unit of air flow in (AF1) is \_\_\_\_\_.

A	Kg/cm <sup>2</sup>	B	Pound/inch
C	Number of wagon	D	Km/hr

25. Size of main bearing journal in ALCO loco is \_\_\_\_\_.

A	9.0"	B	8.5"
C	10"	D	10.5"

26. During which stroke, both valves are closed?

A	Suction	B	Exhaust
C	Power	D	None of the above

27. How many teeth are there in split gear?

A	36	B	30
C	28	D	40

28. Water pump is driven by \_\_\_\_\_.

A	Main generator	B	Extension shaft
C	Cam gear	D	Split gear

29. In WDP3A loco, main bearing elongation is \_\_\_\_\_.

A	0.010"	B	0.020"
C	0.030"	D	0.040"

30. Honey combing is related with \_\_\_\_\_.

A	Cylinder head	B	Piston
C	Cylinder linear	D	Connecting rod

31. The standard colour of humidity indicator in air drier is \_\_\_\_\_.

A	Purple	B	orange
C	Blue	D	White

32. Feed valve is charged through \_\_\_\_\_.

A	Feed pipe	B	Brake pipe
C	Brake cylinder	D	Brake piston

33. What is the condemning size of cylinder linear?

A	228.68mm	B	220.70mm
C	230.72mm	D	231.74mm

34. What is the BHP of WDP<sub>3A</sub> loco?

A	2750 HP	B	3100 HP
C	2600 HP	D	3300 HP

*Answer*



35. In WDM<sub>3A</sub> loco, thrust bearing is fitted in \_\_\_\_\_.

A	No. 1 upper	B	No. 4 upper
C	No. 5 lower	D	No. 9 upper

36. What is unit of S.F.C? (Specific fuel consumption)

A	Gm/BHP-Hr	B	Litre/Kwhr/minute
C	Kg/Newton/hr	D	Kg/hr

37. What is compression ratio of WDM<sub>3A</sub>?

A	12.0:1	B	11.5:1
C	12.5:1	D	13.0:1

38. Which of the following is not of fuel efficient loco?

A	Steel cap piston	B	Modified FIP
C	ALCO TSC	D	Laser after cooler

39. Back lash of Cam gear is \_\_\_\_\_.

A	0.006"to 0.012"	B	0.030"to 0.040"
C	0.034"to 0.045	D	0.020"to 0.039"

40. Height of side buffer (BG locos) should be maintained between \_\_\_\_\_.

A	1105 to 1030mm	B	1150mm to 1000mm
C	1150mm to 900mm	D	1105mm to 800mm

41. The wheel dia variation of WDM<sub>3A</sub> loco on same axle is permitted upto \_\_\_\_\_.

A	2mm	B	3mm
C	4mm	D	0.5mm

42. Brake system of WDM<sub>3A</sub> is \_\_\_\_\_.

A	28LAVI	B	28LV
C	IRAB	D	None

43. During modification of flashes, light time delay is set at \_\_\_\_\_.

A	30 sec.	B	120 sec.
C	60 sec.	D	None

44. Number of rings in steel cap piston is \_\_\_\_\_.

A	07	B	06
C	05	D	None

45. TM pinion bull gear ratio in WDP<sub>4</sub> loco is \_\_\_\_\_.

A	17:77	B	17:90
C	35:90	D	18:65

46. Air compressor of HHP loco is \_\_\_\_\_.

A	Single stage	B	Double stage
C	Four stage	D	Three stage

*Answer*

47. \_\_\_\_\_ is the singular costliest item of HHB Diesel crank case.

A	Crank shaft	B	Oil pan
C	Crank case	D	Power assembly

48. Low viscosity of lub oil indicates \_\_\_\_\_.

A	Mixing of water in lub oil	B	Mixing of fuel oil in lub oil
C	Mixing of carbon content in lub oil	D	None of the above

49. What is the compression ratio of HHP loco?

A	16:1	B	14:1
C	13:1	D	15:1

50. There are \_\_\_\_\_ main bearing in HHP locomotive.

A	8	B	9
C	10	D	16

51. Internal crack in axle is detected by \_\_\_\_\_ test.

A	Ultrasonic	B	DPT
C	Zyglo	D	Magnetic particle test

52. Wheel diameter is measured at \_\_\_\_\_.

A	Loaded condition	B	Unloaded condition
C	In truck	D	None of the above

53. Maximum HP of WDP<sub>4D</sub> is \_\_\_\_\_.

A	4500 HP	B	2600 HP
C	2400 HP	D	3300 HP

54. Firing order of WDM<sub>3A</sub> is \_\_\_\_\_.

A	14768523 R/L	B	14758623 R/L
C	14768532 R/L	D	18254637 R/L

55. The exhaust manifold is connected to part of the TSC \_\_\_\_\_.

A	Gas inlet casing	B	Intermediate casing
C	Turbine casing	D	Blower casing

56. \_\_\_\_\_ Governor is used in HHP loco.

A	GE Governor	B	WW Governor
C	Both A and B	D	None of the above

57. How many traction motors are in WDP<sub>4</sub> loco (G to Loco)?

A	06	B	04
C	02	D	08

58. Length of WDG<sub>4</sub>/WDP<sub>4B</sub> loco over buffer plate is \_\_\_\_\_.

A	19964mm	B	23000mm
C	20000mm	D	21000mm

*Power*



59. Model of WDG<sub>4</sub> loco is \_\_\_\_\_.

A	GT 46 MAC	B	GT 46 PAC
C	Both A and B	D	None of the above

60. Number of brake blocks in HHP loco is \_\_\_\_\_.

A	24	B	12
C	08	D	None of the above

61. What is the synonym of COERCE?

A	Enchant	B	Pressurize
C	Cajole	D	Leave

62. Select the most appropriate word to fill in the blank.

His Company has the \_\_\_\_\_ of producing the best cricket balls in the country.

A	Opinion	B	Brand
C	Reputation	D	Position

63. What is the antonym of EXPANSION?

A	Inflation	B	Augmentation
C	Extension	D	Compression

64. Which among the following is the wrongly spelt word?

A	Calander	B	Career
C	Callous	D	Carriage

65. Select the most appropriate option to substitute the underlined segment in the following sentence. If no substitution is required, select No improvement.

The workers of this textile factory demand higher wages for a long time.

A	have been demanding higher wages	B	demanded higher wages
C	No improvement	D	has demanded higher wages

66. Select the most appropriate meaning of the given idiom.

To play ducks and drakes

A	To use recklessly	B	To change places
C	To be friendly	D	To act cleverly

67. Given below are four jumbled sentences. Select the option that gives their correct order.

- A. The café's owner says he's interested in conservation and hopes customers will realize the animals are worth saving, even though they often have a bad reputation.
- B. None of them are venomous, meaning customers can get up close and personal with the reptiles.
- K. Here you sip your drink in the company of 35 snakes.
- L. This café, which has just opened in Tokyo, is not for the faint hearted.

A	DBCA	B	DCBA
C	ACDB	D	ABDC

*Done*

In the following passage some words have been deleted, fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for (1)\_\_\_\_\_ who spot the most errors. It's running (2)\_\_\_\_\_ two-week campaign calling on Koreans and foreigners (3)\_\_\_\_\_ to keep their eyes peeled for (4)\_\_\_\_\_ in English, Japanese and Chinese text, the Korea Times reports. There's a (5)\_\_\_\_\_ focus on public transport signs, maps and information signs at historic sites as part of a drive to improve the experience of foreign tourists in the South Korean capital.

68. Select the most appropriate option for blank no.1.

A	this	B	those
C	that	D	these

69. Select the most appropriate option for blank no.2.

A	one	B	the
C	an	D	a

70. Select the most appropriate option for blank no.3.

A	same	B	similarly
C	alike	D	likely

71. Select the most appropriate option for blank no.4.

A	guffaws	B	blunder
C	oversight	D	mistakes

72. Select the most appropriate option for blank no.5.

A	particular	B	important
C	signifying	D	meticulous

73. Select the word which means the same as the group of words given.

A person, animal or plant much below the usual height.

A	Wizard	B	Dwarf
C	Creature	D	Witch

74. Select the option in which the words share the same relationship as that shared by the given pair of words.

Horses : Neigh

A	Ducks : Quack	B	Parrots : Bray
C	Hares : Boom	D	Pigs : Buzz

75. Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

A	Intelligence	B	Weight
C	Aptitude	D	Memory

76. The HCF of two number is 12. Which one of the following can never be their LCM?

A	72	B	60
C	90	D	84

*Answer*



77. The mean proportion of 169 and 144 is \_\_\_\_\_.

A	156	B	147
C	126	D	165

78. The length and breadth of a rectangle are increased by 8% and 5% respectively. By how much percentage will the area of the rectangle increase?

A	13.4%	B	15.4%
C	12.4%	D	16.4%

79. Rs.2500 when invested for 8 years at a given rate of simple interest per year amounted to Rs.3725 on maturity. What was the rate of simple interest that was paid per annum?

A	6%	B	6.125%
C	6.25%	D	5.875%

80. P and Q can complete a project in 15 days and 10 days respectively. They started doing the work together, but after 2 days, Q had to leave and P alone completed the remaining work. In how many days was the whole work completed?

A	11	B	12
C	13	D	10

81. During Special Disability leave, full salary is granted for a period of \_\_\_\_\_ days.

A	100	B	90
C	120	D	130

82. Leave Not Due during the entire service is limited to a maximum of \_\_\_\_\_ days.

A	120	B	300
C	240	D	360

83. Period of suspension, unless reviewed, shall not be valid beyond \_\_\_\_\_ days.

A	90	B	60
C	120	D	180

84. Non-employment certificate for payment of Subsistence Allowance during the period of suspension shall be submitted in Standard Form No. \_\_\_\_\_.

A	SF.1	B	SF.3
C	SF.6	D	SF.7

85. When is a Higher Class Pass issued?

A	On Scouts & Guide account	B	For cultural functions
C	On medical grounds	D	None of these

86. Break journey is not permissible in case of \_\_\_\_\_.

A	Transfer pass	B	School pass
C	Settlement pass	D	Post retirement complimentary pass

87. A retired Railway servant should not act as Defense Helper in more than \_\_\_\_\_ cases at a time.

A	4	B	6
C	2	D	7

*Copy*

88. Subletting of railway quarters is violation of \_\_\_\_\_ of Railway Services (Conduct) Rules 1966.

A	Rule No.9	B	Rule 15A
C	Rule 13A	D	Rule 13

89. Any statement by a Railway servant embarrassing the relations between Central Government and State Government is in violation of \_\_\_\_\_ of Railway Services (Conduct) Services, 1966.

A	Rule No.9	B	Rule No.3
C	Rule No.11	D	Rule No.15

90. Communication of Official information in accordance with Right to Information Act 2005 is permitted under \_\_\_\_\_ of Railway Services (Conduct) Rules 1966.

A	Rule No.9	B	Rule No.4
C	Rule No.11	D	Rule No.10

91. The S.I. unit of refractive index is \_\_\_\_\_.

A	Meter	B	Centimeter
C	Watt	D	No unit

92. The liquid metal is \_\_\_\_\_.

A	Bismuth	B	Magnesium
C	Mercury	D	Sodium

93. Which of the following is not a primary colour?

A	Red	B	Blue
C	Green	D	Yellow

94. Endothermic reactions are those in which \_\_\_\_\_.

A	heat is evolved	B	heat is absorbed
C	temperature increases	D	light is produced

95. Which colour of light is deviated least?

A	Red	B	Blue
C	Violet	D	Green

96. The acid present in gastric juice is \_\_\_\_\_.

A	Hydrochloric acid	B	Citric acid
C	Sulphuric acid	D	Acetic acid

97. Which blood cells are called 'Soldiers' of the body?

A	WBC	B	Platelets
C	RBC	D	All of the above

98. Which of the following is the first calculating device?

A	Abacus	B	Calculator
C	Turing machine	D	Pascaline

99. Who among the following is considered as the 'Father of Artificial Intelligence'?

A	Charles Babbage	B	Lee De Forest
---	-----------------	---	---------------

*Handwritten signature*



- |   |               |   |           |
|---|---------------|---|-----------|
| C | John McCarthy | D | JP Eckert |
|---|---------------|---|-----------|
100. Which was the world's first successful electronic computer?
- |   |           |   |  |
|---|-----------|---|--|
| A | PARAM     | B | CRAY-1   |
| C | Pascaline | D | ENIAC Electronic Numerical Integrator and Computer |
101. The Official Languages Act was passed in the year \_\_\_\_\_.
- |   |      |   |      |
|---|------|---|------|
| A | 1964 | B | 1965 |
| C | 1963 | D | 1967 |
102. On passing of which examination conducted by the Hindi Training Scheme, Personal pay will be given?
- |   |         |   |                   |
|---|---------|---|-------------------|
| A | Prabodh | B | Praveen           |
| C | Pragya  | D | None of the above |
103. On which date was Part XVII of the Constitution passed in Parliament?
- |   |            |   |            |
|---|------------|---|------------|
| A | 14.09.1949 | B | 19.04.1949 |
| C | 14.04.1949 | D | 04.09.1949 |
104. Sections 6 & 7 of The Official Languages Act do not apply to which State?
- |   |             |   |                 |
|---|-------------|---|-----------------|
| A | Haryana     | B | Madhya Pradesh  |
| C | Maharashtra | D | Jammu & Kashmir |
105. How many articles are there in Part XVII of the Constitution?
- |   |   |   |   |
|---|---|---|---|
| A | 8 | B | 9 |
| C | 7 | D | 6 |
106. How many members are there in the Committee of Parliament on Official Language?
- |   |    |   |    |
|---|----|---|----|
| A | 10 | B | 20 |
| C | 30 | D | 25 |
107. What is the periodicity of the meetings of Official Language Implementation Committees?
- |   |                  |   |                  |
|---|------------------|---|------------------|
| A | Every month      | B | Once in 2 months |
| C | Once in 6 months | D | Once in 3 months |
108. What is the Foreign Language included in the Eighth Schedule?
- |   |          |   |         |
|---|----------|---|---------|
| A | Nepali   | B | Mythili |
| C | Santhali | D | Bodo    |
109. What is the name of the Hindi -in-house magazine published by Hindi Section, Divisional Office, Southern Railway?
- |   |               |   |                |
|---|---------------|---|----------------|
| A | Dakshin Dwani | B | Mandal Mathuri |
| C | Pallavika     | D | Swarna Deepika |
110. Who is the Chairman of Town Official Language Implementation Committee, Chennai?
- |   |      |   |      |
|---|------|---|------|
| A | GM   | B | SDGM |
| C | ADGM | D | DRM  |

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