

PRE-QUALIFYING EXAMINATION FOR FORMATION OF THE POST OF ASSISTANT WORKS MANAGER (AWM), IN GROUP 'B' IN LEVEL-8 OF RSRP RULES 2016, AGAINST 30% QUOTA IN MECHANICAL DEPARTMENT

Date: 27.02.2022

Time:3.00 hrs

Maximum Marks: 100

निर्देश

1. सभी प्रश्न 100% वस्तुनिष्ठ हैं।
2. सभी उम्मीदवार नीली या काली स्याही/बॉलपवाइंट पेन का प्रयोग करें। सभी प्रश्नों का उत्तर उसी रंग की स्याही से दिया जाना चाहिए जिसका उपयोग फ्लाईलीफ / उत्तरपुस्तिका के पहले पृष्ठ को लिखने के लिए किया जाता है।
3. सभी प्रश्न बहुविकल्पीय हैं और केवल एक ही विकल्प है। अंग्रेजी के साथ-साथ प्रश्नों के हिंदी संस्करणों के लिए प्रश्न संख्या के सामने बड़े अक्षरों (ए, बी, सी या डी) में उत्तर लिखे जाने चाहिए।
4. **110 प्रश्न हैं लेकिन केवल 100 प्रश्नों के उत्तर देने हैं। प्रत्येक प्रश्न समान अंक का होता है।**
5. यदि किसी उम्मीदवार ने आवश्यक प्रश्नों से अधिक उत्तर दिए हैं, तो पहले प्रयास किए गए 100 प्रश्नों का ही मूल्यांकन किया जाएगा और बाकी को अनदेखा कर दिया जाएगा।
6. नकारात्मक अंक लागू हैं और प्रत्येक गलत उत्तर के लिए नकारात्मक अंक होंगे। प्रत्येक प्रश्न के लिए आवंटित अंकों का एक तिहाई (1/3) गलत उत्तर के लिए काट लिया जाएगा।
7. उत्तरों की प्रामाणिकता सुनिश्चित करने के लिए, किसी भी रूप में ओवरराइटिंग, कटिंग, सुधार, स्ट्राइक, री-राइटिंग, इरेजिंग की अनुमति नहीं है। इस तरह के सुधार के मामले में शून्य अंक दिए जाएंगे।
8. मोबाइल फोन या कैलकुलेटर का प्रयोग प्रतिबंधित है।
9. अंग्रेजी और हिंदी संस्करण के बीच किसी भी विसंगतिके मामले में, अंग्रेजी संस्करण मान्य होगा।

Instructions to the candidates

1. All questions are 100% objective.
2. All candidates should use blue or black ink/ball point pen. All questions should be answered using the same colour of ink used for writing Fly leaf/first page of answer book.
3. All questions are multiple choice with only one correct option. Answers should be written in Capital letters (A, B, C or D) against the question number for English as well as Hindi versions of question.
4. **There are 110 questions but only 100 questions are to be answered.** Each question carries equal marks.
5. If any candidate has answered more than required questions, the first attempted 100 questions only will be evaluated and rest will be ignored.
6. Negative marks are applicable and there shall be negative marks for each incorrect answer. One third (1/3rd) of the marks allotted for each question will be deducted for wrong answer.
7. To ensure authenticity of answers, no overwriting, cutting, corrections, striking, re-writing, erasing in any form is permitted. Zero marks will be awarded in case of such corrections.
8. Use of mobile phones or calculator is prohibited.
In case of any discrepancy between English and Hindi version, English version will prevail.

1. Which of the following countries is not a permanent member of the UN Security Council?
 - A. Russian Federation
 - B. China
 - C. India
 - D. France

2. Which of the following is true about the Constitution of India?
 - A. It was passed and adopted on 26.11.1949
 - B. It came into force on 26.01.1950.
 - C. B.R. Ambedkar is known as the father of the Constitution.
 - D. All the above statements are correct.

3. Who was the First Chief of Defence Staff of India
 - A. Field Marshall K M Cariappa
 - B. General Manoj Mukund Naravane
 - C. Admiral R Hari Kumar
 - D. General Bipin Rawat

4. Who is the present Chief Justice of the Supreme Court of India?
 - A. Justice N. V. Ramana
 - B. Justice Ranjan Gogoi
 - C. Justice K Subba Rao
 - D. Justice S A Bobde

5. The winner of the T20 World Cup in 2021 was
 - A. India
 - B. New Zealand
 - C. Australia
 - D. England

6. The full form of KRCL is
 - A. Kerala Rajasthan Coach and Locomotives
 - B. Karnataka Railway Carriage Limited
 - C. Kapurthala Rail Coach Limited
 - D. Konkan Railway Corporation

7. Arrange the states in order of increasing population.

(i) Jharkhand (ii) Uttar Pradesh (iii) Meghalaya

 - A. (i), (ii), (iii)
 - B. (iii), (ii), (i)
 - C. (iii), (i), (ii)
 - D. (ii), (i), (iii)

8. Match the States with their Capital City

States : (i) Kerala (ii) Haryana (iii) Goa (iv) Nagaland

Capital: (a) Panaji (b) Kohima (c) Chandigarh (d) Thiruvananthapuram

 - A. (i) and (a), (ii) and (b), (iii) and (c), (iv) and (d)
 - B. (i) and (a), (ii) and (c), (iii) and (b), (iv) and (a)
 - C. (i) and (d), (ii) and (c), (iii) and (a), (iv) and (b)
 - D. (i) and (b), (ii) and (d), (iii) and (a), (iv) and (b)

9. Which of the following are effective precautions against COVID-19 infection

- A. Wearing Mask, maintaining social distance and ensuring hand hygiene
- B. Attending large gatherings in small and confined spaces
- C. Not getting vaccinated
- D. None of the above

10. Match the Currency with the Country

(i) Euro (ii) Rubble (iii) Taka (iv) Yuan

Country: (a) Russia (b) Bangladesh (c) Germany (d) China

- A. (i) and (c), (ii) and (a), (iii) and (b), (iv) and (d)
- B. (i) and (d), (ii) and (a), (iii) and (b), (iv) and (c)
- C. (i) and (c), (ii) and (b), (iii) and (a), (iv) and (d)
- D. (i) and (d), (ii) and (c), (iii) and (a), (iv) and (b)

11. What is the purpose of an OTP (One Time Password) in the context of Internet Banking?

- A. It allows public access to carry out transaction from our bank account
- B. It provides a second layer of protection in the face of weak passwords
- C. It is a means to delay the transaction
- D. The maximum amount of the transaction must be less than the OTP value

12. Which of the following is a salient feature of "Vista dome" Trains introduced by Indian Railways

- A. The trains are capable of running at maximum speed to 200 kmph
- B. The trains are composed of heritage coaches built during the pre-independence era
- C. The trains are composed of coaches with large glass windows, glass roofs, observation lounges and rotatable seats
- D. None of the above

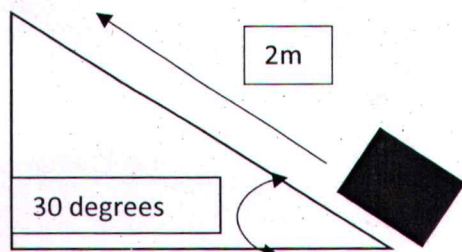
13. Which of the following statements is true with respect to "Vande Bharat" Express

- A. It is a train that connects the Cities of Delhi and Mumbai
- B. It was designed and manufactured by ICF Perambur
- C. It is a train introduced to mark India's 75th Independence day
- D. None of the above.

14. The Governor of the Reserve Bank of India is

- A. Shri Raghuram Rajan
- B. Dr. Urjit R. Patel
- C. Shri Shaktikanta Das
- D. Dr. D. Subbarao

15. Assume a frictionless inclined plane as given below:



A block initially at rest is pushed up a distance of 2m along the inclined plane. The final velocity of the block is also 0. If the weight of the block is 10kgs, the work done in this process is:

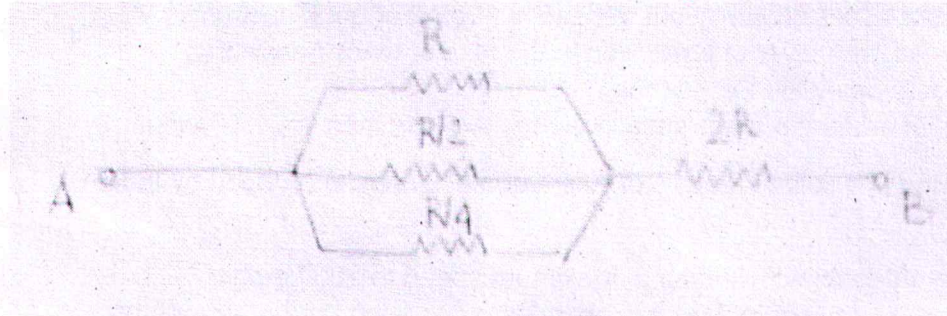
- A. 0 J
- B. 98 J
- C. 196 J
- D. Cannot be computed

16. The solution to the two simultaneous equations given above is

$$X^2+Y^2=1, 2x+Y=1$$

- A. $X = 4, Y = 5$
- B. $X = 1.5, Y = 2.1$
- C. $X = 7, Y = 2/9$
- D. None of the above

17. Calculate the effective resistance for the following circuit (between A&B)



- A. $3R+3R/4$
- B. $5R/4$
- C. $15R/7$
- D. $15R/4$

18. Ramesh starts a road journey from Bengaluru to Mysuru. He drives at an average speed to 60 kmph. Swati starts her journey at an average speed of 75kmph from Bengaluru to Mysuru one hour after Ramesh. Assume distance between the two cities as 180 km. Select the correct option.

- A. Ramesh will reach Mysuru 24 minutes before Swati
- B. Ramesh will reach Mysuru 24 minutes after Swati
- C. Ramesh will reach Mysuru 40 minutes before Swati
- D. Ramesh will reach Mysuru 40 minutes after Swati

19. A cube has side of length 10 units. What is the radius of a cylinder having height of 10 units and the same volume as the cube?

- A. 10
- B. 11.28
- C. 5.64
- D. 20

20. The correct statement about the work done by a force acting on a rigid body is:
- A. It is computed as the product of magnitude of force and displacement in the direction of application of force
 - B. It is the product of magnitude of force and distance moved
 - C. It is the product of magnitude of force and displacement
 - D. None of the above statements are correct
21. A man is 2 times as old as his son. After 10 years, the difference in the ages is 15 years. What are their current ages?
- A. Son-20, Father 40.
 - B. Son-15, Father 30.
 - C. Son-25, Father 40.
 - D. Son-25, Father 50
22. In order to achieve a better surface finish while turning on a machine tool (lathe):
- A. Increase depth of cut
 - B. Use a dead centre at the tailstock instead of a live centre
 - C. Use a smaller depth of cut and greater spindle speed
 - D. None of the above is correct.
23. Fatigue strength for a material is defined in terms of.
- A. A constant cycle stress amplitude
 - B. No. of loading cycle for which the material can withstand a constant cycle stress amplitude.
 - C. Both (A) and (B).
 - D. None of the above.
24. Some of the hardness testing methods available are-
- A. Brinell
 - B. Rockwell
 - C. Both (A) and (B).
 - D. Slater in addition to (A) and (B) above.
25. Which of the following statement are true?
- A. Transition from elastic to plastic behaviour is known as yielding.
 - B. Plastic deformation in metals is a reversible kind of deformation.
 - C. Metals undergo only elastic deformation under all conditions.
 - D. All the above are correct.
26. Transformers are useful for-
- A. Stepping up/down DC voltages.
 - B. Stepping up/down AC voltages.
 - C. Both (A) and (B) are correct.
 - D. Both (A) and (B) are wrong.
27. The Axle Load of AC 3 tier LHB Coach is
- A. 65 Tonnes
 - B. 20.32 Tonnes
 - C. 81.28 Tonnes
 - D. 16.25 Tonnes

28. Which Locomotive is suited for hauling freight trains consisting of loaded BOXN wagons?

- A. YDM4
- B. ZDM3
- C. X Class Locomotive
- D. WAG9

29. 5S is a system for organizing spaces so that work can be performed effectively, efficiently and safely. Based on this, which of the following statements is correct?

- (i) The focus of 5S is to put everything where it belongs and keep the work place clean
- (ii) Implementation of 5S results in increased costs
- (iii) The origin of 5S is attributed to the Toyota Production System

- A. Statements (i) and (ii) are correct. Statement (iii) is incorrect
- B. Statements (i) and (iii) are correct. Statement (ii) is incorrect
- C. Statements (ii) and (iii) are correct. Statement (i) is incorrect
- D. All three statements are incorrect

30. Which of the following instrument is used for measuring temperature inside a furnace?

- A. Anemometer
- B. Barometer
- C. Thermocouple
- D. Piezometer

31. Select the correct option for the effect of increasing Carbon content in Steel

- A. Raises tensile strength, and machinability. Lowers resistance to corrosion.
- B. Raises creep resistance. Lowers brittleness
- C. Raises tensile strength and hardness. Lowers ductility, toughness and machinability
- D. Carbon has no effect on the property of steel

32. The Specification for Axles used in BG Electric locomotives is

- A. IRS M - 41
- B. IRS - BG Loco
- C. IRS R 43
- D. IRS R 16

33. The Plan head pertaining to acquisition of Machinery and Plant through Works Program is

- A. Plan Head 21
- B. Plan Head 22
- C. Plan Head 41
- D. Plan Head 42

34. In the context of inventory control, for best Inventory performance results we must combine ABC analysis & VED analysis as follows

- A. Focus on Desirable and A Category items
- B. Focus on Desirable and C Category items
- C. Focus on Vital and C Category items
- D. None of the above

35. How is Earnest Money different from Security Deposit?

- A. Former is relevant before opening of tender and later is relevant after issue of LOA
- B. Former is relevant after issue of LOA and later is relevant before opening of tender
- C. Both are compulsory for PAC procurement cases
- D. They are both one and the same thing.

36. One major difference between the ICF design coach and the LHB Coach is
- A. ICF Coach uses coils springs for primary and secondary suspension whereas LHB Coaches are provided with Laminated Bearing Springs
 - B. ICF coaches use ferritic stainless steel in the roof whereas LHB coaches use austenitic stainless steel in the roof
 - C. Brakes are applied in ICF coach on the tread of the wheel, whereas in LHB coaches disc brakes are provided
 - D. ICF coaches are fit for 150 kmph whereas LHB coaches are fit for 180 kmph
37. The voltage used for Electric Traction in Indian Railways is
- A. 25000 Volts
 - B. 440 Volts
 - C. 240 Volts
 - D. 110 V DC
38. The track gauge for Broad Gauge in Indian Railways is
- A. 1000 mm
 - B. 1676 mm
 - C. 1600 mm
 - D. 1435 mm
39. Which of the following are identified as Hazardous Waste in RWF's Work Instruction for Hazardous Waste Management
- A. Used PPEs, Canteen Waste, Sewage water and Scrap Wood
 - B. Asbestos Gaskets, Used Oils and Paint Sludge.
 - C. Turnings and Borings, Skull and Slag
 - D. None of the above
40. Which of the following are applicable safety precautions while carrying out welding?
- A. Synthetic Clothes are preferred over cotton clothes
 - B. Earthlings lead should be secured firmly as close to the welding location as possible
 - C. For eye protection use sun glasses
 - D. All of the above are essential for safety during welding
41. The density and yield strength of steel are approximately in the range:
- A. 15 g/cu.cm and yield strength of 10000 MPa
 - B. 7.8 g/cu.cm and yield strength of 350 MPa
 - C. 2 g/cu.cm and yield strength of 1000 MPa
 - D. 7.8 g/cu.cm and yield strength of 50 MPa
42. When the axles are heated to a temperature above 800-degree C and cooled in air, the process is called
- A. Tempering
 - B. Quenching
 - C. Melting
 - D. Normalizing
43. Graphite powder increases the element of
- A. Silicon
 - B. Manganese
 - C. Carbon
 - D. Phosphorous

44. What is the full form of PPE?
- Public Private Enterprise
 - Personal Protective Equipment
 - Public Procurement Entity
 - Privilege Pass Entitlement
45. The following is true about machining centres –
- Automatic tool changes and multiple operations results in productivity improvement
 - They earn more profit for machine builders
 - Both (A) & (B) are correct
 - Both (A) & (B) are incorrect
46. Which of the following are terms related to setting up of a local area network in your office?
- Network cables
 - Switches
 - Both (A) & (B)
 - Neither (A) & (B)
47. Why do we need Antivirus software?
- To increase the storage efficiency of a file
 - To protect a PC from malicious code attacks
 - To make fonts look better in PowerPoint
 - None of the above
48. What are the features/facilities available in the Human Resource Management System (HRMS) application developed by CRIS?
- (i) Privilege Pass can be issued using the HRMS App
- (ii) APARs can be filled using this App
- Both (i) and (ii) are false
 - Only (i) is false, (ii) is true
 - Both (i) and (ii) are true
 - Only (ii) is false, (i) is true
49. What is the purpose of the UMID App?
- (i) It is the Urban Modern Integrated Dashboard for vendors of Indian Railways
- (ii) It is the Unique Medical Identity Card, for e-validation of identity of Railway Medical beneficiaries.
- (iii) It provides end-to-end solution for Medical Identity with complete Rule integration with built-in validation.
- Item (i) is false, items (ii) and (iii) are true
 - Item (i) is true, items (ii) and (iii) are false
 - Item (i) and (iii) are true and item (ii) is false
 - Item (i) and (ii) are true and item (iii) is false
50. Match the wagon code with the type of Wagon
- (a) BLC (b) BCNHL (c) BOXN
- (i) Bogie Open Wagon (ii) Bogie Covered Wagon (iii) Bogie Container Flat Wagon
- (a) = (i), (b) = (ii) and (c) = (iii)
 - (a) = (iii), (b) = (ii) and (c) = (i)
 - (a) = (ii), (b) = (i) and (c) = (iii)
 - (a) = (iii), (b) = (i) and (c) = (ii)

51. Match the Coach code with the Coach Type

(a) LWSCN (b) WGSCN (c) WLRRM

(i) ICF Type Non AC Sleeper Coach (ii) ICF Type Luggage cum Generator Car

(iii) LHB Type Non AC Sleeper Coach

- A. (a) = (i), (b) = (ii) and (c) = (iii)
- B. (a) = (ii), (b) = (iii) and (c) = (i)
- C. (a) = (iii), (b) = (i) and (c) = (ii)
- D. (a) = (i), (b) = (iii) and (c) = (ii)

52. Identify the tests which are Destructive and Non-Destructive from the following

(i) Tensile Test (ii) Izod Impact Test

(iii) Dye penetrant test (iv) Ultrasonic flaw detection

- A. All four are examples of destructive tests
- B. All four are examples of non-destructive tests
- C. Items (i) and (ii) are destructive tests and items (iii) and (iv) are non-destructive tests
- D. Items (i) and (ii) are non-destructive tests and items (iii) and (iv) are destructive tests

53. What is the difference between Capital Expenditure and Revenue Expenditure?

- A. Capital Expenditure is expenditure incurred on day to day work of Indian Railways. Revenue expenditure is the expenditure incurred for depreciation of its assets
- B. Capital Expenditure is expenditure incurred due to depreciation of assets. Revenue expenditure is the expenditure incurred for construction of new lines of Indian Railways.
- C. Capital expenditure is expenditure incurred on creation of assets. Revenue expenditure is the expenditure incurred in day-to-day operations of the Indian Railways
- D. Both are one and the same thing

54. While finalizing the price for wheel sets to be sold to Non Railway Customers (NRC)

- A. No profit is charged by RWF
- B. No GST is applicable
- C. Profit is charged by RWF
- D. None of the above

55. The major cost component for a BOXN Axle is

- A. The cost of PNG used in Axle Forge Shop
- B. The cost of Labour in Axle Machine Shop
- C. The cost of the steel bloom
- D. The cost of metal cutting inserts

56. The major cost component of a BOXN wheel disc is

- A. The electrical energy consumed in Steel Melting Shop
- B. The cost of Graphite Mould Blanks
- C. The cost of PNG used in the Normalizing Furnace
- D. The cost of steel scrap



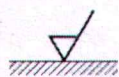
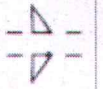
57. What is the purpose of Stock Verification?

- A. To check whether the item is obsolete
- B. To check whether the space occupied by the item can be reduced
- C. To tally the book balance with the actual physical balance of the material
- D. Stock verification serves no purpose

58. An employee who is superannuating can encash LAP up to
- 300 days
 - 315 days
 - 30 days
 - 10 days
59. The facility of encashment of up to 10 days LAP at the time of availing privilege pass
- Up to maximum of 30 days in the entire career
 - Up to maximum of 300 days in the entire career
 - Up to maximum of 120 days in the entire career
 - Up to maximum of 60 days in the entire career
60. What is the purpose of the "Staff Benefit Fund" (SBF)?
- To serve as a source of income for the persons belonging to economically weaker section of society
 - To enable employees to secure personal loans at low interest rates
 - To provide additional amenities to the employees and their families that cannot be directly met out of the Revenue Grants
 - None of the above
61. When an employee is suspended from duty in terms of The Railway servants (Discipline & Appeal) Rules, 1968
- The employee is eligible for subsistence allowance
 - The suspension is a minor penalty
 - The suspension is a major penalty
 - None of the above
62. Which of the following is a Major Penalty as per The Railway servants (Discipline & Appeal) Rules, 1968
- Suspension
 - Recovery from his pay of the whole or part of any pecuniary loss caused to the Government or Railway Administration by negligence or breach of orders
 - Withholding of the Privilege Passes or Privilege Ticket Orders or both
 - Compulsory retirement
63. As per The Railway servants (Discipline & Appeal) Rules, 1968
- A minor penalty can be imposed without conducting an enquiry.
 - No penalty can be imposed without conducting an enquiry.
 - A major penalty can be imposed without conducting an enquiry.
 - None of the above
64. The New Pension Scheme is applicable for employees
- Recruited before 01-01-2004
 - Recruited after 01-01-1974
 - Recruited after 01-01-2004
 - Retiring after 01-01-2004
65. The maximum ceiling limit for availing child care leave is
- 10 days during entire service
 - 180 days during entire service
 - 730 days during entire service
 - 365 days during entire service

66. A male Railway servant is eligible for paternity leave upto
- 15 days
 - 10 days
 - 30 days
 - 365 days
67. RWF has Holiday Homes at
- Ooty and Mysore
 - Shimla and Kodaikanal
 - Kanniyakumari and Nainital
 - Puri and Lucknow
68. Conditions under which compensation is payable as per the Workmen Compensation Act of 1923,
- Fever or viral infection
 - Injury has resulted in disablement / death
 - Injury after wilful in disregard of safety instructions
 - All the above are correct.
- ✓ 69. As per the canons of financial property, no authority should exercise powers of sanctioning expenditure to pass an order which will be-
- Directly / indirectly to its own advantage
 - Can sanction expenditure to its own advantage
 - Can sanction expenditure to its own advantage subject to a detailed speedy order
 - (A) & (B) are correct
70. Line capacity means
- No. of trains per day in a path
 - Sleeper density
 - Weight of Rails which can bear the formation of the path
 - None of the above
- ✓ 71. ROR is not applicable to
- New lines
 - Passenger amenities and safety works
 - Railway Electrification
 - None of the above
72. Which of the following should not be used for extinguishing fire in electrical panels?
- Water
 - Sand
 - Fire extinguisher
 - All of the above
73. Electric Arc furnace cooling is done by
- Water
 - Air conditioner
 - Oil
 - None of the above
74. The PH value of a neutral solution is
- = 7
 - < 7
 - > 7
 - None of the above

75. The purpose of core baking is to
- Accelerate the solidification of the molten metal in the risers to increase production rate
 - Retard the solidification of the molten metal in the riser to ensure that the casting gets adequate feeding of molten metal.
 - Ensure direct contact of molten metal with graphite
 - None of the above
76. When a wheel is pressed on an axle during assembly of a wheel set, the fit is a
- Transition Fit
 - Clearance Fit
 - Sliding Fit
 - Interference Fit
77. Select the most appropriate instrument for measuring the chemical composition of steel
- Spectrometer
 - Micrometer
 - Thermometer
 - Millimeter
78. The furnaces used for melting steel scrap in Steel Melting Shop of RWF are
- Oil Fired Furnaces
 - Coal Fired Furnaces
 - Electric Arc Furnaces
 - Boiler Furnaces
79. In a furnace, the purpose of a recuperator is to
- Cooling inlet air and heating the exhaust gas
 - Transfer heat from the exhaust gas to the inlet air in order to pre-heat the inlet air
 - Cool the furnace walls
 - Reduce emission of toxic gases
80. Material used for manufacture of pouring tube is
- Ceramic
 - Plastic
 - Carbide
 - Polymer
81. Which of the following symbols is used to denote surface finish in an engineering drawing?

A.	
B.	
C.	
D.	

82. 1 micron is _____ mm
- A. 10^{-6}
 - B. 10^{-3}
 - C. 10^{-5}
 - D. 10^{-2}
83. The non-destructive tests conducted on an axle in order are
- A. Tensile strength, Charpy impact test
 - B. Elongation, Rockwell hardness test
 - C. Ultrasonic, Radial, Magnetic Particle test
 - D. Ultrasonic, BHN
84. The emergency spares are
- A. Recouped on a maxima-minima policy
 - B. Non Stock items
 - C. Imprest Stores
 - D. None of the above
85. Ferro silicon is added to increase the percentage of _____ in molten metal
- A. Iron
 - B. Manganese
 - C. Carbon
 - D. Silicon
86. Closure test is done for:
- A. 1 in 500 coach wheels
 - B. 1 in 1000 BOXN wheels
 - C. 1 in 100 wheels of any type
 - D. Both (A)&(B) are correct
87. As per bloom specification of RWF, for axles to IRS R-43/92 (diesel/electric loco axles), which of the following is true:
- A. Specified value of YS strength is not less than 50% of UTS
 - B. UTS between 58 to 70
 - C. Both (A) and (B) are correct
 - D. Both (A) and b) are incorrect
88. The freezing point of water is 32 degree Fahrenheit and the boiling point of water is 212 degree Fahrenheit. The corresponding values in degree Celsius are 0 degree and 100 degrees respectively. What is the value of "Absolute Zero" in degree Fahrenheit?
- A. -273.15
 - B. 180
 - C. -459.67
 - D. -473
89. Read the following statements and identify the statement which is correct
- (i) A servo motor can operate at higher torque than a stepper motor
 - (ii) A servo motor is smaller in size than a stepper motor
 - (iii) Servo motor and stepper motor are used for position control
- A. Statement (i) and (iii) are correct and statements (ii) is incorrect
 - B. Statement (i) is incorrect and statements (ii) and (iii) are correct
 - C. Statement (i) is correct and statements (ii) and (iii) are incorrect
 - D. Statement (i) and (ii) are correct and statement (iii) is incorrect

90. Select the correct statement
- Roller bearings are less sensitive to angular misalignments as compared to ball bearings
 - It is possible to reuse a ball bearing by changing its inner race or outer race
 - Ball bearings are suited for lighter loads and roller bearings are suited for heavier loads
 - All of the above statements are correct
91. The difference between austenitic and ferritic stainless steel is
- Austenitic stainless steel has higher chromium content than ferritic stainless steel
 - Austenitic stainless steel is magnetic whereas ferritic stainless steel is non-magnetic
 - Austenitic stainless steel has lower chromium content than ferritic stainless steel
 - Austenitic stainless steel is non-magnetic whereas ferritic stainless steel is magnetic
- Statement (i) and (ii) are correct, Statement (iii) and (iv) are incorrect
 - Statement (iii) and (iv) are correct, Statement (i) and (ii) are incorrect
 - Only Statement (i) is correct, statements (ii), (iii) and (iv) are incorrect
 - None of the statements (i) , (ii), (iii) or (iv) are correct
92. Select the statement which is true in the context of LHB Coach and an EMU coach
- LHB coach wheelset is fitted with cartridge taper roller bearings, whereas EMU coach wheelset is fitted with spherical roller bearings
 - LHB coach wheelset is fitted with spherical roller bearings, whereas EMU coach wheelset is fitted with cartridge taper roller bearings
 - LHB coach wheelset is fitted with cylindrical roller bearings whereas EMU coach wheelset is fitted with plain bearings
 - None of the above statements are true
93. Select the statement which is true in the context of the iron-carbon diagram
- Alpha ferrite is a solid solution of Carbon in Face Centered Cubic iron
 - Alpha ferrite is a solid solution of Carbon in Body Centered Cubic iron
 - Gamma ferrite is a solid solution of Carbon in Body Centered Cubic iron
 - Alpha austenite is a solid solution of Carbon in Body Centered Cubic iron
94. Financial appraisal of projects is worked out using
- DCF technique
 - PERT
 - Depreciation method
 - None of the above
95. Detailed Estimate need not be prepared for works costing less than
- Rs. 10 lakhs
 - Rs. 5 lakhs
 - Rs. 3 lakhs
 - Rs. 2 lakhs
96. Special limited tenders can be invited for specialized works from _____ agencies
- 6 and above
 - 4 and above
 - 2 and above
 - None of the above

97. Outstanding quantities against all live purchase orders are termed as
- A. Covered dues
 - B. Uncovered dues
 - C. In process dues
 - D. Dead dues
98. Purchase of imported WTA items is handled by
- A. RWF
 - B. ICF
 - C. Zonal Railways
 - D. Railway Board
99. Stock which provide for an emergency in case of default by the suppliers and also to take care of fluctuations in consumptions, is known as
- A. Emergency stock
 - B. Buffer stock
 - C. Ordinary stores
 - D. Custody stock
100. Convener of the tender committee in stores purchases is the
- A. Technical member
 - B. Accounts member
 - C. Mechanical member
 - D. Stores member
101. The States of India have been divided into how many regions for the purpose of Rajbhashacorrespondence?
- A. 3
 - B. 4
 - C. 5
 - D. 6
102. Which Ministry makes policy decisions regarding Official Language?
- A. Ministry of Railways
 - B. Ministry of Home Affairs
 - C. Ministry of Human Resource Development
 - D. All of the above
103. Which of the following does not come under section 3(3) of the Official Language Act ?
- A. Resolution
 - B. General Orders
 - C. Invitation Cards
 - D. Tender notices
104. Who shall be responsible to ensure that documents coming under section 3(3) are issued in bilingual?
- A. Senior .RajbhashaAdhikari
 - B. Administrative Head of the Office
 - C. Officer signing the documents
 - D. The employee preparing the document.

105. How many languages are enlisted in the 8th Schedule at present?
- A. 18
 - B. 14
 - C. 22
 - D. 17
106. An Officer /employee shall be deemed to possess working knowledge of Hindi when:
- A. He has passed matriculation or equivalent or a higher examination with Hindi as one of the subjects.
 - B. Passed the pragra exam.
 - C. If he declares himself to have acquired working knowledge of Hindi in the prescribed form.
 - D. All the above.
107. Which of the Union Territories come under 'B' region?
- A. Lakshadweep
 - B. Andaman & Nicobar Island
 - C. Chandigarh, Dadara and Nagar Haveli
 - D. Delhi
108. The documents coming under Section 3(3) of the Official Language Act should be issued in language /languages.
- A. Only in Hindi
 - B. In Hindi and in English
 - C. Only in English
 - D. In Hindi or in English
109. As per Official Language Rules, 1976, the question of whether a document is of technical or legal nature is decided by-
- A. Head of the department /Officer
 - B. Issuer of the document
 - C. The Official translation cell
 - D. The president of India
110. In what order should be the languages written in the name boards displayed in Central Government Offices?
- A. Hindi, English, Regional Language.
 - B. Regional Language, English, Hindi
 - C. Regional Language, Hindi, English
 - D. Hindi, Regional Language, English