

21/9/24

मध्य रेल

CENTRAL RAILWAY

यांत्रिक विभाग के अंतर्गत सहायक रसायनज्ञ एवं धातुविज्ञानी,
लेवल - 8 (पीबी-2+जीपी -4800/-) के पद हेतु समुह "बी" पैनल के लिए लिखित परीक्षा
Written Examination for Group "B" Panel for the Post of Assistant Chemist & Metallurgist
(ACMT) in Mechanical Department

दिनांक : 21.09.2024

Date: 21.09.2024

कुल अंक : 100

Total Marks: 100

समय : 2 घंटे

Time: 2 hrs.

उम्मीदवारों के लिए निर्देश

Instructions for candidates

1. उम्मीदवारों को परीक्षा शुरू होने से पहले उत्तर पुस्तिकाओं के साथ संलग्न "उम्मीदवारों के लिए निर्देश" को पढ़ना और कड़ाई से पालन करना चाहिए।

Candidates should go through the "INSTRUCTIONS FOR CANDIDATES" attached with the Answer Books before commencement of the exam which is to strictly adhered to.

2. सभी प्रश्नों के अंक समान हैं। कुल अंक 100 हैं। समय 2 घंटे हैं।

All questions carry equal marks. Total marks are 100. Time is 2 hours.

3. उम्मीदवारों को केवल 100 प्रश्नों का उत्तर देना है। खण्ड 'ए' के प्रश्न संख्या 01 से 80 तक में राजभाषा के वैकल्पिक 10 प्रश्न सम्मिलित हैं, अभ्यर्थियों को 70 प्रश्नों के ही उत्तर देने हैं। यदि अतिरिक्त प्रश्नों का प्रयास किया जाता है तो प्रश्न संख्या 1 के बाद से गिनती की जाएगी और निचले छोर से अतिरिक्त प्रश्नों के उत्तर को नजरअंदाज कर दिया जाएगा। यानी पहले 70 प्रयास किए गए प्रश्नों को ही अंकन के लिए माना जाएगा। खण्ड 'बी' के प्रश्न संख्या 81 से 110 अनिवार्य हैं।

Candidates should answer only 100 questions. Questions No. 01 to 80 of Section 'A' includes optional 10 questions of Rajbhasha, candidates should answer 70 questions only. In case extra questions are attempted then counting will be done from Q. No. 1 onwards and excess questions answered from lower end will be ignored. i.e., only first 70 attempted questions will be considered for marking. Questions No. 81 to 110 of Section 'B' are compulsory.

4. उम्मीदवार केवल नीले/काले (कोई एक रंग) रंग के बॉलपॉइंट पेन का ही प्रयोग करें। सभी प्रश्नों के उत्तर उसी रंग की स्याही से देने हैं जिसका प्रयोग उत्तर पत्रक/उत्तर पत्रक के प्रथम पृष्ठ को लिखने के लिए किया है। उम्मीदवार को हेडिंग को मार्क करने और डायग्राम बनाने आदि के लिए स्केच-पेन के विभिन्न रंगों जैसे हरा, लाल आदि का उपयोग नहीं करना है।

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The candidate should use Blue/Black (any one colour) colour ballpoint pen only. All the questions should be answered with the same colour of ink used for writing fly-leaf/ first page of the Answer Sheet. The candidate should not use different colours of sketch-pen such as green, red etc. for marking of the headings and drawing of diagrams etc.

5. उम्मीदवार को प्रश्न संख्या के सामने दिए गए स्थान में उत्तर लिखना है, उदाहरण के लिए यदि वह प्रश्न 1 का प्रयास कर रहा है तो उसे प्रश्न 1 के सामने दिए गए बॉक्स में दिए गए विकल्प के अनुसार उत्तर लिखना है।

Candidate should write answer in the space provided against question number. for e.g., if he/she is attempting Q.1 then he/she should write Answer as per option given in the box provided against Q.1.

6. उम्मीदवार को उत्तर पत्रक पर दिए गए प्रश्न का उत्तर अनिवार्य रूप से बड़े अक्षरों में देना है (उदाहरण के लिए - A, B, C, D).

The candidate should invariably answer to the question given on the Answer Sheet in Capital Letters (For example - A, B, C, D).

7. यदि कोई प्रश्न अनुत्तरित है, तो उम्मीदवार उत्तर पत्रक के रिक्त स्थान (बॉक्स) पर क्रॉस (X) लगा दें।

If any question unanswered, then the candidates should put cross (X) on the blank space (Box) of the Answer Sheet.

8. बहुविकल्पीय प्रश्नों के उत्तर, किसी भी प्रकार के सुधार (जैसे कटिंग, ओवरराइटिंग, टिक किए गए उत्तर को स्कोर करना और दूसरे उत्तर पर टिक करना, मिटाना, उत्तर को किसी भी तरह से संशोधित करना) की अनुमति नहीं है। सुधार के ऐसे मामलों में शून्य अंक दिए जाएंगे।

Answers to Multiple Choice Questions, **No Corrections** of any type (viz. cutting, overwriting, scoring off a ticked answer & ticking another answer, erasing, modifying the answer in any way) will be permitted. Zero marks will be awarded in such cases of corrections.

9. गलत उत्तरों के लिए नकारात्मक अंकन है। प्रत्येक गलत उत्तर के लिए प्रत्येक प्रश्न के लिए आवंटित अंकों में से एक तिहाई अंक काट लिए जाएंगे।

There shall be negative marking for incorrect answers. One-third of the marks allotted for each question will be deducted for every wrong answer.

10. उम्मीदवारों के पास हिंदी या अंग्रेजी संस्करण का पालन करने का विकल्प है। हिंदी संस्करण और अंग्रेजी संस्करण के बीच किसी भी गलती या अस्पष्टता के मामले में, अंग्रेजी संस्करण मान्य होगा।

Candidates have options to follow either Hindi or English version. In case of any mistake or ambiguity between Hindi version and English version, the English version shall prevail.

11. परीक्षार्थी उत्तर पुस्तिका में फ्लाई लीफ के अलावा कहीं भी अपना नाम, अनुक्रमांक या पदनाम न लिखें।

Candidates should not write his/her name, roll number or designation anywhere in the Answer Book except on fly leaf.

12. उत्तर पुस्तिका में कहीं भी कोई विशिष्ट चिह्न पाए जाने पर उत्तर पुस्तिका को मूल्यांकन के लिए नहीं लिया जाएगा।

Answer Book will not be taken up for evaluation if any distinguishing marks are found anywhere in the Answer Book.

13. उम्मीदवारों को परीक्षा हॉल में अपने साथ बैग, किताबें, नोट्स, मोबाइल फोन, कैलकुलेटर, इलेक्ट्रॉनिक्स घड़ियां या कोई अन्य दस्तावेज/कागजात रखने की अनुमति नहीं है। परीक्षा हॉल में प्रवेश करने से पहले मोबाइल फोन बंद करके निरीक्षक को सौंप देना है। यदि किसी उम्मीदवार के पास सेल फोन या कोई अन्य इलेक्ट्रॉनिक गैजेट पाया जाता है, तो ऐसे उम्मीदवार को अयोग्य घोषित कर दिया जाएगा।

The candidates are not allowed to keep bags, books, notes, mobile phones, Calculator, Electronics watches or any other documents/ papers with them in the examination hall. Mobile phones should be switched off and handed over to the Invigilator before entering the examination hall. If Cell phone or any other electronic gadget is found in possession of any candidate, such candidate will be debarred.

14. अनुचित साधनों का प्रयोग करने वाले उम्मीदवारों के खिलाफ अनुशासनात्मक कार्रवाई शुरू की जाएगी। इसके अलावा ऐसे उम्मीदवारों को भी चयन से वंचित कर दिया जाएगा।

Disciplinary action will be initiated against candidates using unfair means. Further such candidates will also be debarred from the selection.

15. (अ) उत्तर पत्रक सौंपने से पहले, उम्मीदवार को यह सुनिश्चित करना होगा कि उत्तर पत्रक का फ्लाई लीफ पूरी तरह से भरा है यानी रोल नंबर, नाम, समुदाय आदि।

(ब) उम्मीदवार को अपनी उत्तर पुस्तिकाएं सौंपने के बाद अपना कार्यमुक्ति पत्र प्राप्त कर लें।

(a) Before handing over the answer sheet, candidate should ensure that the fly leaf of the answer sheet should be completely filled in i.e., Roll No, Name, Community, etc.

(b) Candidate should collect their relieving letter after handing over their answer sheets.

SECTION - A

1	Which test is a non-destructive technique A. Tensile test. B. Ultrasonic Test. C. Creep Test. D. None of the above
2	Which is the alloying element that makes the stainless steel anticorrosive. A. Carbon. B. Chromium. C. Tungsten D. None of the above
3	In Thermit welding, iron oxide is mixed and heated with which metal powder. A. Aluminium. B. Iron. C. Copper. D. Nickel
4	In brass alloy, copper is mixed with which metal. A. Aluminium. B. Zinc. C. Copper. D. Nickel
5	Tensile testing is done on which machine. A. Spectro. B. Rockwell. C. Universal. D. None of these.
6	Which test is used to detect internal faults of the Axles. A. Hardness. B. UST. C. DPT. D. None of them
7	Tensile strength of a wire is increased by increasing A. Carbon. B. Copper. C. Sulphur. D. All of the above
8	What is the weakest link of the center buffer coupler? A. Knuckle. B. Draft gear. C. Lock. D. Yoke pin
9	Permanent deformities of material with respect to time due to constant load and variable temperature is called A. Elasticity. B. Plasticity. C. Creep. D. Resistance
10	Coating of Zinc on the Iron is called A. Amalgam. B. Coating. C. Galvanization. D. Polishing
11	Malleability is A. <input checked="" type="radio"/> Drawing into long wire. B. Get sheets by beating. C. Become brittle on beating. D. None of these
12	Material specification used for "Corten Steel" in Indian Railways is A. IRS M 41. B. IS 2062. C. IRS R 19. D. IS 187
13	Post weld heat treatment is done by A. Normalising. B. Stress Relieving. C. Annealing. D. Nitriding
14	The melting point of copper is A. 1085 °C. B. 1285 °C. C. 1350 °C. D. 1453 °C
15	Austenitic Stainless Steel contains --- % of Chromium A. 18.0%. B. 28.3%. C. 2.5 %. D. 4.0 %
16	Tempering of steel in heat treatment is done to: A. To reduce brittleness of the hardened steels B. To make steel harder C. To reduce ductility of steel D. None of the mentioned

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17	The Max % of carbon on ferrite is A. 0.025 B. 0.102 C. 0.8 D. 1.03
18	Pearlite is a combination of A. Ferrite & Cementite B. Ferrite & Austenite C. Ferrite & Ledeburite D. Pearlite & Ferrite
19	In which metal the electric conductivity is least. A. Lead. B. Copper. C. Aluminium. D. Iron
20	Neoprene is chemically known as A. Polybutadiene B. Styrene butadiene rubber (SBR) C. Polyurethane D. Polychloroprene
21	In Bio-Toilets of IR which type of bacteria is used A. Aerobic. B. Amidogens. C. Methanogens. D. Anaerobic
22	In Bio-effluent testing pH should be in the range of: A. 5-9 B. 6-9 C. 5-10 D. 7-9
23	Anodizing is done on which material. A. Aluminum. B. Copper. C. Zinc. D. Titanium
24	Which is used as a Solid lubricant A. Phosphorus B. Graphite. C. Sodium. D. Cast Iron
25	Bronze is an alloy of A. Aluminium & Titanium B. Copper & Zinc C. Copper, Zinc & Tin D. Aluminium, Tin & Silicon
26	During Rockwell Hardness Test in 'C' Scale, total applied load is: A. 150 Kg. B. 60 Kg. C. 100 Kg. D. None of these
27	Hardness of rubber is tested by A. Durometer. B. Rockwell 'B' Scale. C. Vickers. D. Rockwell 'A' Scale
28	Piezoelectric phenomenon is observed during. A. Radiography. B. MPT. C. UST. D. Zyglo testing
29	The periodicity of UST of Electric Loco axles is – A. 06 Months B. 12 Months C. 18 Months D. 48 Months
30	Demagnetization after MPT is carried out by passing through the components. A. AC field gradually increasing current B. DC field gradually reducing current C. DC field gradually increasing current D. AC field gradually reducing current
31	In Indian Railways, surface cracks in Coil Springs of ICF Coaches are detected by A. UST. B. DPT. C. MPT. D. Radiography

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32	All parts can be tested by the DPT method except A. An iron casting B. An aluminium forging C. A part made from a porous material D. A part made from a non-porous material
33	Zygo is a type of Non-Destructive Test A. MPT. B. DPT. C. UST. D. Radiography
34	Viscosity of oil is a measure of A. Internal friction. B. Resistance to flow. C. Both. D. None of these
35	During Spectrographic Analysis of used lube oil, if Copper is found abnormally high, then it indicates A. Water leakage. B. Cylinder linear wear. C. Piston wear. D. Bush wear
36	Dissolved Gas Analysis is carried out on A. Coolant water. B. Lube Oil. C. Transformer Oil. D. Fuel Oil
37	Alloying is done in steels to A. Increase Hardness. B. Decrease toughness. C. Decrease tensile strength D. All of these
38	Components made by Forging process are more in comparison with components made by Casting or machining A. Brittle. B. Soft. C. Strong. D. None of these
39	What is meant by corrosion? A. Chemical reaction between anode, cathode and electrolyte, which leads to loss of metal B. Deterioration of metals due to reaction with its environment C. Both D. None of these
40	Hardenability is the measure of A. Degree of Hardness of Steel B. Amount of martensite C. Depth to which steel can be hardened D. Degree of surface hardness
41	The cause of lack of penetration defect in Welding is A. Rapid cooling B. Too large deposition in a single run C. Excessive moisture in the electrode D. Inadequate joint preparation
42	The main cause of cold breakage of Axle at journal area is A. Biting Mark. B. Higher hardness. C. Lower hardness. D. None of these
43	The cause of failure of Alumino-Thermit (AT) Welded Rails is A. Blow Holes. B. Biting Mark. C. Inadequate Lubrication. D. All of these

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44	The formula of Rusting is A. $\text{Fe}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$ B. $\text{Fe}_2\text{O}_3 \cdot n\text{H}_2\text{O}$ C. $\text{Fe}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$ D. Fe_2O_3
45	_____ is a thermosetting plastic. A. PVC. B. Polythene. C. Bakelite. D. Polystyrene
46	For cutting Stainless steel the most suitable method is A. Plasma. B. LPG. C. Electrode Arc cutting. D. Oxy Acetylene
47	Standard length of SS electrode is A. 350mm. B. 400mm. C. 450mm. D. 500mm
48	Axles are tested from both the sides A. To Cover shadow zone B. To minimize shadow zone C. Both A & B D. None of the above
49	Dead zone is less in A. Single crystal probe. B. Double crystal probe. C. Both A & B D. All probes
50	Probe is an A. Transmitter. B. Receiver. C. Electro acoustic transducer D. None of the above
51	EPDM is a type of & suitable for weather strip. A. Plastic. B. Rubber. C. Fiber. D. Thermoset
52	PVC is an example of A. Thermoplastic Polymer B. Thermosetting Polymer C. Fiber D. Bio-degradable Polymer
53	Internal stresses in steel can be reduced by A. Carburizing. B. Nitrating. C. Annealing. D. Austempering
54	Transducers converts electrical energy to A. Light energy. B. Chemical Energy. C. Sound energy D. Mechanical Energy
55	Lubricants are composed of Base oil & A. Polymers. B. Fibers. C. Additives. D. Fillers
56	Chemically Bio-diesel is known as A. Trimethyl methacrylate B. Trimethyl esters C. Trimethyl mercaptan D. Trimethyl carboxylate
57	In ultrasonic testing of axle, the frequency of wave emitted from probe is A. 2 MHz. B. 1.5 MHz. C. 2.5 MHz. D. 3 MHz
58	Rail axles are manufactured by which method. A. Forging. B. Casting. C. Molding. D. None of these
59	The purest form of iron is A. Cast Iron. B. Wrought Iron. C. Steel. D. None of these

60	Crystal structure of a material is generally examined by A. Naked eye B. Optical microscope C. Metallurgical microscope D. X-ray techniques
61	In LASER welding the energy is utilized for actual fusion & welding. A. Sound. B. Light. C. Plasma. D. Chemical
62	A good lubricant should have ---- A. High Volatility. B. High Viscosity Index. C. Low Boiling Point. D. High Freezing point
63	In Tensile Test, necking starts at— A. Lower Yield Stress B. Upper Yield Stress C. Ultimate tensile Stress D. Just before fracture
64	Preheating before welding is carried out to A. Make the plate softer B. Burn oil & grease sticking to plate surface C. Avoid plate distortion D. Prevent formation of cold cracks
65	Case Carburising heat treatment for 0.2 % Carbon Steel is carried out at the temperature of about A. 900 °C. B. 700 °C. C. 550 °C. D. 250 °C
66	Bio-Diesel is an alternative fuel to substitute to A. HSD. B. Petrol. C. Lube oil. D. Kerosene
67	The purpose of Dark Room in Industrial X-Ray is to protect X-Ray film by controlling A. Dust. B. Light. C. Humidity. D. All of these
68	Iron-Carbon alloys containing 2.0 to 4.3 % carbon are known as A. Eutectic cast Irons B. Hypo-Eutectic Cast irons C. Hyper Eutectic cast Irons D. Eutectoid Cast irons
69	Minimum chromium % requirement in SS to resist corrosion is A. 10. B. 10.5. C. 11. D. 12
70	The purpose of nitriding the steel is to A. Harden its surface. B. Soften its surface. C. Improve its reliability. D. <input checked="" type="radio"/> None of these.
71	राजभाषा नियम किस वर्ष पारित किये गये? A. 1955. B. 1990. C. 1970. D. 1976
72	राजभाषा नियम के अनुसार, अंडमान और निकोबार द्वीप समूह किस क्षेत्र के अंतर्गत आते हैं? A. क-क्षेत्र. B. ख-क्षेत्र. C. ग-क्षेत्र. D. घ-क्षेत्र
73	केन्द्रीय हिन्दी समिति के अध्यक्ष कौन हैं? A. प्रधान मंत्री. B. राष्ट्रपति C. गृह मंत्री D. उपाध्यक्ष

74	कोकणी भाषा किस राज्य में बोली जाती है? A. असम. B. गोआ. C. बिहार. D. छत्तीसगढ़
75	हिन्दी दिवस प्रतिवर्ष कब मनाया जाता है? A. 14 सितंबर B. 14 अक्टूबर C. 14 नवंबर D. 16 दिसंबर
76	संविधान के किस अनुच्छेद में हिंदी को राजभाषा के रूप में वर्णित किया गया है? A. 340 B. 343 C. 349 D. 355
77	राजभाषा अधिनियम 1963 में कुल कितनी धाराएँ हैं? A. कुल 9 धाराएँ B. कुल 11 धाराएँ C. कुल 10 धाराएँ D. कुल 12 धाराएँ
78	महात्मा गांधी ने हिंदी के प्रचार-प्रसार के लिए दक्षिण भारत हिन्दी प्रचार सभा की स्थापना कब की थी? A. सन् 1924 में B. सन् 1922 में C. सन् 1920 में D. सन् 1918 में
79	राजभाषा आयोग का गठन पहली बार किसकी अध्यक्षता में हुआ था? A. बाल गंगाधर तिलक B. बाल गंगाधर खेर C. सी. राजगोपालाचारी D. जुगल किशोर शुक्ल
80	राजभाषा अधिनियम 1963 की धारा 3 (3) को कब से लागु किया गया था? A. 26 जुलाई 1965 से B. 26 जनवरी 1963 से C. 26 जनवरी 1965 से D. 26 जनवरी 1976 से

SECTION - B

81	No of privilege passes issued to Gazetted officer in a year are A. 6 B. 3 C. 4 D. 2
82	Female employee is entitled for how many days of maternity leave? A. 3 months B. 6 months C. 9 months D. 12 months
83	Which of the following standard forms is used to issue suspension order? A. SF-1 B. SF-2 C. SF-11 D. SF-5 A.
84	Plan Head 42 deals with? A. Machinery and Plant programme. B. Works programme C. Rolling stock programme D. None of the above

85	Maximum how many numbers of days of leave at average pay (LAP) can be encashed by an employee at the time of retirement? A. 150 B. 180 C. 300 D. 315
86	How much minimum service is required for post service complimentary pass? A. 15 years B. 20 years C. 30 years D. 33 years
87	Group C employee is eligible for how many sets of Post retirement complimentary passes after completion of 20 years regular service? A. 3 B. 2 C. 1 D. Nil
88	DRF stands for A. Depreciation Reserve Fund B. Development Reserve Fund C. Discounted Revenue Fund D. Development Revenue Fund
89	Expenditure against non-stock items is booked against which primary unit? A. PU 27 B. PU 32 C. PU 28 D. None of the above.
90	Items of M&P costing less than Rs. 1 lakh should be procured through A. Revenue B. PH-41 C. Capital D. None of the above
91	Provision to remove/dismiss an employee without conducting inquiry is granted by which section of the Railway Service (D&A) Rules 1968. A. 13 (a)n B. 11 (c)n C. 14(ii) D. 15 (i)
92	Railway Service(conduct) Rules came into force in A. 1966 B. 1975 C. 1947 D. 1968
93	When no leave is admissible under any other rule, the leave granted is known as A. LAP B. LHAP C. SPL D. Extra ordinary leave
94	Applicable ROR for projects under DCF technique is A. 14% B. 8% C. 10% D. 18%
95	Attendants of Pass Holder is: A. Part time servant. B. Servant. C. Full time paid servant. D. Any person.
96	What is the full form of PNM? A. Parallel Negotiating Mechanism. B. Personnel Negotiations Meeting C. Personnel Negotiating Mechanism. D. Permanent Negotiating Machinery
97	What is full form of PAC A. Propriety Article Control B. Propriety Article Certificate C. Proper Account Consideration D. Procurement Against Cancellation
98	Following agencies inspect materials procured by Railways A. RDSO B. RITES C. Both A & B are correct D. None of the above

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99	What is the full form of ZRTI A. Zonal Railway Training Institute B. Zonal Railway Trading Institute C. General Railway Transportation Institute D. None of the above
100	Who is the sanctioning authority for operating an item by more than 150% of the agreement quantity in works contract? A. PHOD B. CHOD C. GM. D. None of these
101	While in service, an employee is entitled to encash how many days of LAP in a period of two years? A. 30 days B. 15 days. C. 10 days. D. 12.5 days
102	How many divisions are there on Central Railway A. 6 B. 5 C. 4 D. None of the above.
103	Operating expenditure of Mechanical, Electrical, and rolling stock is covered under which grant? A. Demand 8 B. Demand 16 C. Demand 6 D. Demand 10
104	Expenditure against outsourcing contracts is booked against which primary unit? A. PU 27 B. PU 32 C. PU 28 D. None of the above
105	For how much period study leave can be granted at a stretch? A. 24 months B. 36 months C. 12 months D. 30 months
106	Casual leave can be combined with which of the following leave? A. LAP B. LHAP C. Maternity Leave D. None of the above.
107	Staff Benefit Fund allows benefits for all EXCEPT A. Education B. Sickness C. Sports activities. D. Procurement of vehicle
108	Final withdrawal from Provident Funds is allowed for? A. Marriage purposes B. Medical expenses C. House building D. All of the above
109	What is the maximum validity of full set of privilege pass? A. 5 months B. 4 months C. 3 months D. 6 months
110	Which among the following is NOT a Major Penalty? A. Dismissal B. Compulsory retirement C. Withholding of privilege pass D. Reduction to a lower post

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