DRDO CEPTAM 11 Tier 2 Result 2026 Out for Tech-A Posts

DRDO CEPTAM 11 Tier 2 result has been released for Tech-A posts. Prepare for upcoming Trade Tests and STA-B stag...

1. EXAM / NOTIFICATION KEY FACTS & DATES

Post / Course Name	Senior Technical Assistant-B & Technician-A
Total Vacancies	764 Posts
Minimum Qualification	Degree / Diploma / ITI in relevant trade
Exam Date	15 Jun 2026
Selection Process	Tier 1 CBT (Screening), Tier 2 CBT (Selection), Trade Test (Qualifying for ...
Exam Mode & Duration	Computer Based Test (CBT), 90 to 120 Minutes per Tier
Key Subjects	Trade Specific Domain Knowledge, Basic Sciences, Engineering Drawing, Quant...
Negative Marking	No negative marking in CEPTAM Tier 1 & Tier 2 exams

2. 4-STEP SMART PREPARATION PLAN

1. Phase 1: Clear fundamental trade concepts and core formulas for your specific diploma/ITI branch.
2. Phase 2: Solve DRDO CEPTAM past year papers and mock tests focusing on high-frequency numericals.
3. Phase 3: Prepare practical trade skills, safety guidelines, and instrument handling for the qualifying Trade Test.
4. Phase 4: Perform speed-focused revisions using formula cheat sheets and mock tests for maximum retention.

3. SAMPLE GOLDEN SHORTCUTS & FORMULAS

* Shortcut 1: For two parallel resistors R1 and R2, use R_eq = (R1 * R2) / (R1 + R2) instead of reciprocal sums.
* Shortcut 2: Lathe Cutting Time T = (Length of Cut * Number of Passes) / (Feed * RPM).
* Shortcut 3: Least Count of Vernier Caliper = 1 Main Scale Division - 1 Vernier Scale Division.
* Shortcut 4: Transformer ratio rule: V1/V2 = N1/N2 = I2/I1. Remember current ratio is inverted relative to voltage.

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4. TOP 10 HIGH-WEIGHTAGE SYLLABUS TOPICS (QUICK SUMMARY)

1. Electrical Circuits & Ohm's Law

Weightage: High (4-6 Qs)

Fundamental concepts include Ohm's Law V = I * R, Kirchhoff's Current Law KCL at nodes, and Kirchhoff's Voltage Law KVL in loops. Series equivalent resistance is R1 + R2 + R3 while parallel equivalent is 1 / R_eq = 1/...

2. Workshop Calculation & Trigonometry

Weightage: High (4-5 Qs)

Workshop mathematics relies heavily on right-angled triangle formulas including sine, cosine, and tangent ratios. Pythogoras theorem a^2 + b^2 = c^2 is frequently used to find taper angles, lengths, and incline height...

3. Basic Electronics & Semiconductors

Weightage: High (3-5 Qs)

Semiconductors rely on silicon and germanium materials. Intrinsic semiconductors are pure, while extrinsic ones are doped with trivalent impurities to form P-type or pentavalent impurities to form N-type materials. PN...

4. Engineering Drawing & Orthographic Projections

Weightage: High (3-4 Qs)

Engineering drawing tests knowledge of projection methods including First Angle and Third Angle systems. In First Angle projection, the object lies between observer and plane, placing top view below front view. In Thi...

5. Measuring Instruments & Gauges

Weightage: High (4-5 Qs)

Precision tools like vernier calipers and micrometers are critical in practical trade assessments. Least count of a standard metric vernier caliper is usually 0.02 mm, whereas a standard metric micrometer offers 0.01 ...

6. Fitting & Machining Operations

Weightage: High (4-6 Qs)

Machining involves lathe, milling, and drilling operations. Lathe cutting speed formula is V = (pi * D * N) / 1000 meters per minute where D is diameter in mm and N is rotational speed in RPM. Feed rate determines sur...

7. Welding & Sheet Metal Operations

Weightage: High (3-4 Qs)

Welding techniques cover Arc, TIG, MIG, and Oxy-Acetylene gas processes. Arc welding requires appropriate electrode selection based on base metal thickness and composition. Neutral flame in gas welding uses 1 to 1 rat...

8. Electrical Machines: Transformers & Motors

Weightage: High (5-6 Qs)

Transformers operate on mutual electromagnetic induction with voltage ratio V1/V2 = N1/N2 = I2/I1. Ideal transformers have zero losses, but real units suffer copper losses in windings and iron losses in core. Inductio...

9. Digital Electronics & Logic Gates

Weightage: Medium (3-4 Qs)

Digital circuits utilize binary number systems comprising digits 0 and 1. Universal gates NAND and NOR can synthesize any basic logic function including AND, OR, and NOT operations. Truth tables define logical outputs...

10. Thermal Engineering & Thermodynamics

Weightage: Medium (3-4 Qs)

Thermodynamics fundamentals include Zeroth Law defining temperature equality, First Law stating energy conservation Q = delta U + W, and Second Law introducing entropy constraints. Carnot cycle represents theoretical ...

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5. 10 SAMPLE EXAM-STYLE PRACTICE MCQS (WITH ANSWERS)

Q1. What is the equivalent resistance when two 10 Ohm resistors are connected in parallel?
(A) 20 Ohm (B) 5 Ohm (C) 10 Ohm (D) 2.5 Ohm
Ans: (B) | For two equal parallel resistors of value R, equivalent resistance R_eq = R / 2 = 10 / 2 = 5 Ohm.

Q2. Which unit is used to express the specific resistance (resistivity) of a conductor material?
(A) Ohm-meter (B) Ohm / meter (C) Siemens (D) Ohm / sq-meter
Ans: (A) | Resistance R = rho * L / A => rho = R * A / L = Ohm * m^2 / m = Ohm-meter.

Q3. Calculate the synchronous speed of a 4-pole induction motor connected to a 50 Hz AC supply.
(A) 3000 RPM (B) 1000 RPM (C) 1500 RPM (D) 750 RPM
Ans: (C) | Synchronous speed Ns = (120 * f) / P = (120 * 50) / 4 = 6000 / 4 = 1500 RPM.

Q4. What is the least count of a standard metric Vernier Caliper having 49 main scale divisions equal to 50 vernier scale divisions?
(A) 0.1 mm (B) 0.05 mm (C) 0.01 mm (D) 0.02 mm
Ans: (D) | Least Count = 1 MSD - 1 VSD = 1 mm - (49/50) mm = 1/50 mm = 0.02 mm.

Q5. In a transformer, if primary turns N1 = 500, secondary turns N2 = 100, and primary voltage V1 = 220 V, what is secondary voltage V2?
(A) 1100 V (B) 44 V (C) 22 V (D) 88 V
Ans: (B) | V2 / V1 = N2 / N1 => V2 = V1 * (N2 / N1) = 220 * (100 / 500) = 220 * 0.2 = 44 V.

Q6. Which type of fire extinguisher is strictly recommended for electrical fires?
(A) Water type (B) Foam type (C) Carbon Dioxide (CO2) type (D) Soda-acid type
Ans: (C) | CO2 extinguishers are non-conductive and leave no conductive residue, making them safe for electrical fires.

Q7. What is the output of a 2-input NAND gate when both inputs A and B are high (1)?
(A) 0 (B) 1 (C) Undefined (D) High impedance
Ans: (A) | NAND output is inverse of AND. For A=1, B=1, AND gives 1, so NAND gives NOT(1) = 0.

Q8. Which fitting tool is specifically designed to check narrow gap clearances between mating parts?
(A) Radius gauge (B) Feeler gauge (C) Thread pitch gauge (D) Plug gauge
Ans: (B) | Feeler gauges contain thin steel leaves of measured thickness used to measure small clearance gaps.

Q9. If cutting speed V = 31.4 m/min and job diameter D = 50 mm, what is the required lathe spindle RPM (N)?
(A) 100 RPM (B) 200 RPM (C) 400 RPM (D) 500 RPM
Ans: (B) | V = (pi * D * N) / 1000 => N = (V * 1000) / (pi * D) = (31.4 * 1000) / (3.14 * 50) = 200 RPM.

Q10. In First Angle Projection method, where is the top view located relative to the front view?
(A) Above the front view (B) Below the front view (C) To the left of front view (D) To the right of front view
Ans: (B) | In First Angle projection, the top plan view is projected onto the bottom plane, placing it below the front elevation.

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