

JEECUP 2026 Group A Polytechnic

Question Paper (Memory-Based)

Conducted by Joint Entrance Examination Council, Uttar Pradesh (JEECUP).



General Instructions

- (i) The examination is conducted in Computer-Based Test (CBT) mode.
- (ii) Each question carries **+4 marks** for a correct answer and **-1 mark** for a wrong answer.
- (iii) The total number of questions is **100**.
- (iv) The total duration of the exam is **150 minutes** (2 hours and 30 minutes).

1. A body is moving with a constant speed v in a circular path of radius r . The magnitude of average velocity after half a revolution is:

- (A) $\frac{2v}{\pi}$
- (B) v
- (C) $\frac{v}{\pi}$
- (D) zero

2. Which of the following is the most electronegative element?

- (A) Fluorine
- (B) Chlorine
- (C) Oxygen
- (D) Nitrogen

3. If α and β are the roots of $x^2 - 5x + 6 = 0$, the value of $\alpha^2 + \beta^2$ is:

- (A) 13
- (B) 25
- (C) 10
- (D) 15

4. The focal length of a concave mirror is 20 cm. The distance at which an object should be placed to get a real image of same size is:

- (A) 10 cm
 - (B) 20 cm
 - (C) 40 cm
 - (D) 30 cm
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5. What is the common name of CH_3COOH ?

- (A) Acetic acid
 - (B) Formic acid
 - (C) Oxalic acid
 - (D) Citric acid
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6. The value of $\sin^2 30^\circ + \cos^2 30^\circ$ is:

- (A) 1
 - (B) 0
 - (C) 0.5
 - (D) $\sqrt{3}$
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7. A current of 5 A flows through a wire for 10 minutes. The total charge passed is:

- (A) 500 C
 - (B) 50 C
 - (C) 300 C
 - (D) 3000 C
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8. Which gas is liberated when an acid reacts with a metal?

- (A) Hydrogen
 - (B) Oxygen
 - (C) Carbon dioxide
 - (D) Nitrogen
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9. The sum of the first 10 terms of an AP with $a = 2$ and $d = 3$ is:

- (A) 155
 - (B) 145
 - (C) 165
 - (D) 150
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10. An object of 10 kg at a height of 5 m has potential energy ($g = 9.8 \text{ m/s}^2$):

- (A) 49 J
 - (B) 500 J
 - (C) 490 J
 - (D) 980 J
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11. Which of these is a saturated hydrocarbon?

- (A) Ethane
 - (B) Ethene
 - (C) Ethyne
 - (D) Benzene
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12. If the radius of a circle is doubled, its area becomes:

- (A) Four times
 - (B) Double
 - (C) Eight times
 - (D) Remains same
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13. The SI unit of power is:

- (A) Watt
 - (B) Joule
 - (C) Newton
 - (D) Pascal
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14. Which non-metal is liquid at room temperature?

- (A) Mercury
 - (B) Bromine
 - (C) Iodine
 - (D) Carbon
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15. Probability of getting a number > 4 on a fair die is:

- (A) $\frac{1}{2}$
 - (B) $\frac{1}{3}$
 - (C) $\frac{1}{6}$
 - (D) $\frac{2}{3}$
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