



CUET 2026 June 6 Shift 1 Physics

Question Paper (Memory-Based)

Conducted by National Testing Agency (NTA)

General Instructions

- (i) The examination will be conducted in Computer-Based Test (CBT) mode.
- (ii) Each question carries +5 marks for correct answer and -1 mark for wrong answer.
- (iii) The total number of questions are 50.
- (iv) Duration of the exam is 1 hour (60 minutes).

1. A wire of resistance 5Ω is connected across a $10V$ battery. The current flowing through the wire is

- (A) $0.5A$
- (B) $1A$
- (C) $2A$
- (D) $5A$

2. The de Broglie wavelength associated with an electron is inversely proportional to its

- (A) Charge
- (B) Momentum
- (C) Potential Energy
- (D) Frequency

3. A circular coil carries a current of $4A$. If the current is doubled, the magnetic field at its centre becomes

- (A) Half
- (B) Double
- (C) Four times

(D) Unchanged

4. A body of mass 4 kg is moving with a speed of 10 m/s . Its kinetic energy is

- (A) 100 J
 - (B) 150 J
 - (C) 200 J
 - (D) 400 J
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5. An object is placed at a distance of 30 cm from a convex lens of focal length 15 cm . The image is formed at

- (A) 15 cm
 - (B) 20 cm
 - (C) 30 cm
 - (D) Infinity
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6. The rms speed of molecules of an ideal gas at temperature 300 K is 500 m/s . If the temperature is increased to 1200 K , the new rms speed will be

- (A) 250 m/s
 - (B) 500 m/s
 - (C) 1000 m/s
 - (D) 2000 m/s
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7. The work function of a metal is 2 eV . If light of energy 5 eV falls on the metal surface, the maximum kinetic energy of the emitted photoelectrons is

- (A) 2 eV
 - (B) 3 eV
 - (C) 5 eV
 - (D) 7 eV
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8. Two capacitors of capacitances $4\mu\text{F}$ and $6\mu\text{F}$ are connected in parallel. The equivalent capacitance is

- (A) $2.4\mu F$
 - (B) $5\mu F$
 - (C) $10\mu F$
 - (D) $24\mu F$
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9. The half-life of a radioactive substance is 4 days. What fraction of the original sample remains after 12 days?

- (A) $\frac{1}{2}$
 - (B) $\frac{1}{4}$
 - (C) $\frac{1}{8}$
 - (D) $\frac{1}{16}$
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10. A coil experiences a change in magnetic flux from 0.2 Wb to 0.8 Wb in 0.1 s . The average induced emf in the coil is

- (A) 2 V
 - (B) 4 V
 - (C) 6 V
 - (D) 8 V
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