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 $5\,\Omega$ is connected across a $10\,V$ battery. The current flowing through the wire is

(A) $0.5\,A$

(B) $1\,A$

(C) $2\,A$

(D) $5\,A$

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

(A) Charge

(B) Momentum

(C) Potential Energy

(D) Frequency

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

(A) Half

(B) Double

(C) Four times

(D) Unchanged

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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 $4\,\mu F$ and $6\,\mu F$ 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) $8\,V$
