

# CUET 2026 May 19 Shift 1 Physics

## Question Paper (Memory-Based)

Conducted by National Testing Agency (NTA)



### General Instructions

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- (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. In Young's double slit experiment, if the distance between the slits is increased while keeping all other parameters constant, the fringe width will:

- (A) Increase
  - (B) Decrease
  - (C) Remain unchanged
  - (D) First increase then decrease
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2. The dimensional formula of capacitance is:

- (A)  $[M^{-1}L^{-2}T^4A^2]$
  - (B)  $[ML^2T^{-2}A^{-2}]$
  - (C)  $[M^{-1}L^{-1}T^3A]$
  - (D)  $[MLT^{-3}A^{-1}]$
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3. Polarisation of light proves that light waves are:

- (A) Longitudinal
- (B) Transverse
- (C) Stationary
- (D) Electromagnetic only in vacuum

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**4. The work function of a metal is 2 eV. Photoelectric emission will occur when the metal is illuminated with light of energy:**

- (A) 1 eV
  - (B) 1.5 eV
  - (C) 2.5 eV
  - (D) 2 eV only
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**5. In a moving coil galvanometer, the magnetic field is made radial so that the:**

- (A) Resistance decreases
  - (B) Current sensitivity decreases
  - (C) Deflection becomes directly proportional to current
  - (D) Coil does not rotate
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**6. The SI unit of magnetic flux is:**

- (A) Tesla
  - (B) Weber
  - (C) Henry
  - (D) Coulomb
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**7. In an electromagnetic wave, the electric field and magnetic field are:**

- (A) Parallel to each other
  - (B) Anti-parallel to each other
  - (C) Perpendicular to each other and to the direction of propagation
  - (D) Parallel to the direction of propagation
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**8. The half-life of a radioactive substance is 10 days. The fraction of the original sample left after 30 days is:**

- (A)  $1/2$
  - (B)  $1/4$
  - (C)  $1/6$
  - (D)  $1/8$
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**9. The focal length of a convex lens is 20 cm. An object is placed at 40 cm from the lens. The image formed will be:**

- (A) Virtual and erect
- (B) Real and inverted
- (C) Virtual and inverted
- (D) Real and erect

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**10. The magnetic field at the center of a circular current carrying loop depends on:**

- (A) Only the radius of the loop
  - (B) Only the current flowing
  - (C) Current and radius of the loop
  - (D) Resistance of the wire only
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