

CBSE Class 12 Physics Question Paper 2026 PDF - GetMyUni



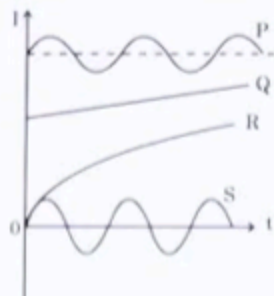
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## SECTION A

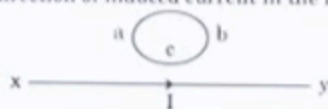
1. In a Young's double-slit experiment, the fringe width is found to be  $\beta$ . If the entire apparatus is immersed in a liquid of refractive index  $\mu$ , the new fringe width will be :  
 (a)  $\beta$                       (b)  $\mu\beta$                       (c)  $\frac{\beta}{\mu}$                       (d)  $\frac{\beta}{\mu^2}$
  
2. A light of frequency  $\nu$  is incident on a metal surface whose work function is  $W_0$ . The kinetic energy of emitted electron is  $K$ . If the frequency of the incident light is doubled then the kinetic energy of emitted electron will be :  
 (a)  $2K$     (b) more than  $2K$   
 (c) between  $K$  and  $2K$                       (d) less than  $K$
  
3. Which of the following statements is **not** true for nuclear forces ?  
 (a) They are stronger than Coulomb forces.  
 (b) They have about the same magnitude for different pairs of nucleons.  
 (c) They are always attractive.
  
4. A particle of mass  $m$  and charge  $-q$  is moving with a uniform speed  $v$  in a circle of radius  $r$ , with another charge  $q$  at the centre of the circle. The value of  $r$  is :  
 (a)  $\frac{1}{4\pi\epsilon_0 m} \left(\frac{q}{v}\right)$                       (b)  $\frac{1}{4\pi\epsilon_0 m} \left(\frac{q}{v}\right)^2$   
 (c)  $\frac{m}{4\pi\epsilon_0} \left(\frac{q}{v}\right)$                       (d)  $\frac{m}{4\pi\epsilon_0} \left(\frac{q}{v}\right)^2$
  
5. Photons of energy  $3.2 \text{ eV}$  are incident on a photosensitive surface. If the stopping potential for the emitted electrons is  $1.5 \text{ V}$ , the work function for the surface is :  
 (a)  $1.5 \text{ eV}$                       (b)  $1.7 \text{ eV}$                       (c)  $3.2 \text{ eV}$                       (d)  $4.7 \text{ eV}$
  
6. Which one of the following has relative magnetic permeability between 0 and 1 ?  
 (a) Aluminium    (b) Alnico  
 (c) Water    (d) Sodium



7. The figure shows variation of current ( $I$ ) with time ( $t$ ) in four devices P, Q, R and S. The device in which an alternating current flows is :



- (a) P                      (b) Q                      (c) R                      (d) S
8. Name the electromagnetic waves also known as 'heat waves'.
- (a) Radio waves                      (b) Microwaves  
(c) X-rays                      (d) Infrared waves
9. A plane wavefront is incident on a concave mirror of radius of curvature  $R$ . The radius of the refracted wavefront will be :
- (a)  $2R$                       (b)  $R$                       (c)  $\frac{R}{2}$                       (d)  $\frac{R}{4}$
10. A proton and an alpha particle have the same kinetic energy. The ratio of de Broglie wavelengths associated with the proton to that with the alpha particle is :
- (a) 1                      (b) 2                      (c)  $2\sqrt{2}$                       (d)  $\frac{1}{2}$
11. The direction of induced current in the loop abc is :



- (a) along abc if  $I$  decreases  
(b) along acb if  $I$  increases  
(c) along abc if  $I$  is constant  
(d) along abc if  $I$  increases