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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  $v$  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  $3.2$  eV are incident on a photosensitive surface. If the stopping potential for the emitted electrons is  $1.5$  V, the work function for the surface is :

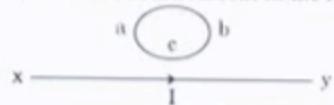
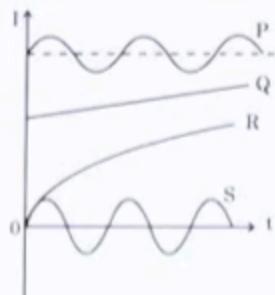
(a)  $1.5$  eV (b)  $1.7$  eV (c)  $3.2$  eV (d)  $4.7$  eV

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) along abc if I decreases
- (b) along aeb if I increases
- (c) along abc if I is constant
- (d) along abc if I increases