PART –A (PHYSICS)

1. In an electron microscope, the resolution that can be achieved is of the order of the wavelength of electrons used. To resolve a width of 7.5×10^{-12} m, the minimum electron energy required is close to:
   (A) 500 keV   (B) 100 keV
   (C) 1 keV   (D) 25 keV

2. To mop-clean a floor, a cleaning machine presses a circular mop of radius R vertically down with a total force F and rotates it with a constant angular speed about its axis. If the force F is distributed uniformly over the mop and the floor is μ, the torque, applied by the machine on the mop is:
   (A) $\mu FR/3$ (B) $\mu FR/6$
   (C) $\mu FR/2$ (D) $\frac{2}{3}\mu FR$

3. A potentiometer wire AB having length L and resistance 12 r is joined to a cell D of emf ε and internal resistance r. A cell C having emf $\varepsilon/2$ and internal resistance 3r is connected. The length AJ at which the galvanometer as shown in figure shows no deflection is:

   (A) $\frac{11}{12}L$ (B) $\frac{11}{24}L$
   (C) $\frac{13}{24}L$ (D) $\frac{5}{12}L$

4. A TV transmission tower has a height of 140 m and the height of the receiving antenna is 40 m. What is the maximum distance upto which signals can be broadcasted from this tower in LOS (Line of Sight) mode? (Given : radius of earth = 6.4×10^6 m).
   (A) 65 km   (B) 48 km
   (C) 80 km   (D) 40 km

5. In the cube of side 'a' shown in the figure, the vector from the central point of the face ABOD to the central point of the face BEFO will be:

   (A) $\frac{1}{2}a(\hat{k} - \hat{i})$ (B) $\frac{1}{2}a(\hat{i} - \hat{k})$
   (C) $\frac{1}{2}a(\hat{j} - \hat{i})$ (D) $\frac{1}{2}a(\hat{j} - \hat{k})$

6. A uniform metallic wire has a resistance of 18 Ω and is bent into an equilateral triangle. Then, the resistance between any two vertices of the triangle is:
   (A) 4 Ω (B) 8 Ω
   (C) 12 Ω (D) 2 Ω

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