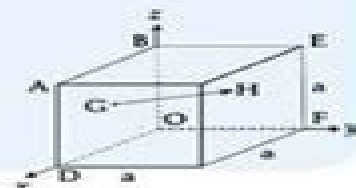
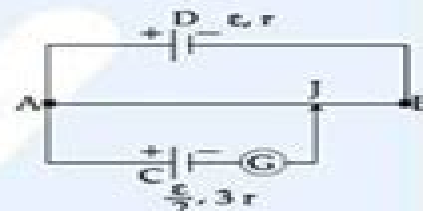


## PART -A (PHYSICS)

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  $7.5 \times 10^{-12}$  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  $\mu$ , 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  $12r$  is joined to a cell  $D$  of emf  $\epsilon$  and internal resistance  $r$ . A cell  $C$  having emf  $\epsilon/2$  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 =  $6.4 \times 10^6$  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  $16 \Omega$  and is bent into an equilateral triangle. Then, the resistance between any two vertices of the triangle is:  
 (A)  $4 \Omega$  (B)  $8 \Omega$   
 (C)  $12 \Omega$  (D)  $2 \Omega$



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**Great Britain: Parliament: House of  
Commons: Education Committee**



## January 2014 Phwjec Question Paper:

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