

# Electric Charges and Fields

## Multiple Choice Questions (MCQs)

**DIRECTIONS :** This section contains multiple choice questions. Each question has four choices (a), (b), (c) and (d) out of which only one is correct.

- Two small spheres each having the charge  $+Q$  are suspended by insulating threads of length  $l$  from a hook. This arrangement is taken in space where there is no gravitational effect, then the angle \_\_\_\_\_ between the two suspensions and the tension is \_\_\_\_\_ in each thread.  
 (a)  $180^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{l^2}$  (b)  $90^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{l^2}$   
 (c)  $180^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{2l^2}$  (d)  $180^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{l^2}$
- Two equal point charges each of  $3\mu\text{C}$  are separated by a certain distance in metres. If they are located at  $(i + j + k)$  and  $(2i + 3j + k)$ , then the electrostatic force between them is  
 (a)  $9 \times 10^3 \text{ N}$  (b)  $16 \times 10^{-3} \text{ N}$   
 (c)  $10^{-3} \text{ N}$  (d)  $9 \times 10^{-2} \text{ N}$
- A body is positively charged, it implies that  
 (a) there is only positive charge in the body  
 (b) there is positive as well as negative charge in the body but the positive charge is more than negative charge  
 (c) there is equal positive and negative charge in the body but the positive charge lies in the outer regions  
 (d) negative charge is displaced from its position
- On rubbing, when one body gets positively charged and other negatively charged, the electrons transferred from positively charged body to negatively charged body are  
 (a) valence electrons only  
 (b) electrons of inner shells  
 (c) both valence electrons and electrons of inner shell  
 (d) yet to be established
- Three charges  $+q$ ,  $+2q$  and  $+4q$  are connected by strings as shown in the figure. What is ratio of tensions in the strings  $AB$  and  $BC$ ?



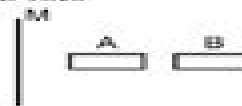
- (a) 1 : 2 (b) 1 : 3 (c) 2 : 1 (d) 3 : 1
6. Two charge  $q$  and  $-3q$  are placed fixed on  $x$ -axis separated by distance  $d$ . Where should a third charge  $2q$  be placed such that it will not experience any force?



- (a)  $\frac{d - \sqrt{3}d}{2}$  (b)  $\frac{d + \sqrt{3}d}{2}$   
 (c)  $\frac{d + 3d}{2}$  (d)  $\frac{d - 3d}{2}$
7. Two positive ions, each carrying a charge  $q$ , are separated by a distance  $d$ . If  $F$  is the force of repulsion between the ions, the number of electrons missing from each ion will be ( $e$  being the charge of an electron)

- (a)  $\frac{4\pi\epsilon_0 Fd^2}{e^2}$  (b)  $\sqrt{\frac{4\pi\epsilon_0 Fd^2}{e^2}}$   
 (c)  $\sqrt{\frac{4\pi\epsilon_0 Fd^2}{e^2}}$  (d)  $\frac{4\pi\epsilon_0 Fd^2}{e^2}$

8. A large nonconducting sheet M is given a uniform charge density. Two uncharged small metal rods A and B are placed near the sheet as shown in figure. Then



- (a) M attracts A  
 (b) M attracts B  
 (c) A attracts B  
 (d) All of these
9. Three charges  $-q_1$ ,  $+q_2$  and  $-q_3$  are placed as shown in the figure. The  $x$ -component of the force on  $-q_1$  is proportional to



- (a)  $\frac{q_2}{a^2} - \frac{q_3}{a^2} \cos \theta$   
 (b)  $\frac{q_2}{a^2} + \frac{q_3}{a^2} \sin \theta$   
 (c)  $\frac{q_2}{a^2} + \frac{q_3}{a^2} \cos \theta$   
 (d)  $\frac{q_2}{a^2} - \frac{q_3}{a^2} \sin \theta$

# Electric Forces And Field Physics Answers

**Marco Cascella**



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