

# **Electric Charges** and Fields

#### Multiple Choice Questions (MCQs)

DIRECTIONS: This section contains multiple choice assessions. Each question has four choices (a), (b), (c) and (d) out of which earth case to comment.

Two small spheres each having the charge +Q are suspended by invalating threads of length L from a hook. This arrangement is taken in space where there is no gravitational effect, then the angle two suspensions and the tension is

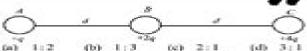
(a) 
$$txt0^4$$
,  $\frac{1}{4\pi\epsilon_0} \frac{Q^2}{(2I_1)^2}$ 

(b) 90°, 
$$\frac{1}{4\pi\kappa_0}\frac{Q^2}{L^2}$$

(c) 
$$180^{\circ}$$
,  $\frac{1}{4\pi\epsilon_0} \frac{Q^2}{2L^2}$ 

(d) 180°, 
$$\frac{1}{4\pi\kappa_0} \frac{Q^2}{L^2}$$

- Two equal point charges each of 3µC are separated by a certain distance in metres. If they are located at  $(\hat{l} + \hat{j} + \hat{k})$  and  $(2\hat{l} + 3\hat{j} + \hat{k})$ , then the electrostatic force between them is
  - $(ab 9 \times 10^{3})$ N.
- (b) 16 × 10 3 N
- (d)  $9 \times 10^{-2} \text{ N}$
- 6cb 10c0 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
  - (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?



Two charge q and -3q are placed fixed on x-axis separated by distance at. Where should a third charge 2a be placed such that it will not experience any force?

(a) 
$$\frac{d - \sqrt{3} \cdot d}{2}$$
 (b)  $\frac{d + \sqrt{3} \cdot d}{2}$  (c)  $\frac{d + 3 \cdot d}{2}$  (d)  $\frac{d - 3 \cdot d}{2}$ 

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

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

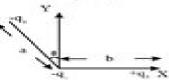
- Minutenets A. (b) Mattracts B
- A attracts B
- (d) All of these



(a) 
$$\frac{32}{b^2} - \frac{13}{at^2} \cos \theta$$
(b) 
$$\frac{q_2}{b^2} + \frac{q_3}{at^2} \sin \theta$$



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



# **Holt Physics Quiz Review Answers Electric Forces And Fields**

**Terry C. Jones** 

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