

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.
 - $180^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{(2l)^2}$
 - $90^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{l^2}$
 - $180^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{2l^2}$
 - $180^\circ, \frac{1}{4\pi\epsilon_0} \frac{Q^2}{l^2}$
- 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
 - $9 \times 10^3 \text{ N}$
 - $16 \times 10^{-3} \text{ N}$
 - 10^{-3} N
 - $9 \times 10^{-2} \text{ N}$
- A body is positively charged, it implies that
 - there is only positive charge in the body
 - there is positive as well as negative charge in the body but the positive charge is more than negative charge
 - there is equal positive and negative charge in the body but the positive charge lies in the outer regions
 - 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
 - valence electrons only
 - electrons of inner shells
 - both valence electrons and electrons of inner shell
 - 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 ?



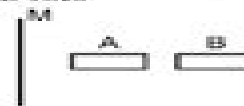
- 1 : 2
 - 1 : 3
 - 2 : 1
 - 3 : 1
6. Two charge q and $-3q$ are placed fixed on x -axis separated by distance d . Where should a third charge $2q$ be placed such that it will not experience any force?



- $\frac{d - \sqrt{3}d}{2}$
 - $\frac{d + \sqrt{3}d}{2}$
 - $\frac{d + 3d}{2}$
 - $\frac{d - 3d}{2}$
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)

- $\frac{4\pi\epsilon_0 Fd^2}{e^2}$
- $\sqrt{\frac{4\pi\epsilon_0 Fd^2}{e^2}}$
- $\sqrt{\frac{4\pi\epsilon_0 F}{e^2}}$
- $\frac{4\pi\epsilon_0 Fd^2}{e^2}$

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



- M attracts A
 - M attracts B
 - A attracts B
 - 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



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

Holt Physics Electric Forces And Fields Answers

David Baud



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