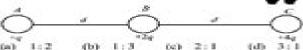


Electric Charges and Fields

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
- 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?



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) $\frac{4\pi\epsilon_0 F d^2}{e^2}$

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

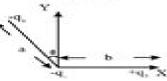


(a)
$$\frac{1}{b^2} - \frac{1}{a^2} \cos \theta$$

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



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



Electric Forces And Field Physics Answers

Thomas Bond, Chris Hughes

Electric Forces And Field Physics Answers:

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