

→ ELECTROSTATICS

Q.1: Repulsion is the sure test of electrification. Explain?

Ans: Electrostatic attraction is observed between oppositely charged bodies and also between a charged (+ve or -ve) and an uncharged body. But, however, only two charges of the same kind (both +ve or both -ve) can repel each other. Hence, repulsion is the sure test of electrification.

Q.2: Will a solid metal sphere hold a large electric charge then a hollow sphere of the same diameter? Where the charge does resides in each case?

Ans: A solid metal sphere will hold the same amount of charge as is held by a hollow sphere of the same diameter. This is due to the fact that any excess electric charge resides only on the outer surface of a conductor.

Q.3: Explain why is it so much easier to remove an electron from an atom of large atomic mass than it is to remove a proton?

Ans: In an atom of large atomic mass, the number of both protons and electrons is large. This big atom contains many orbits (or shells). So it is easier to remove an electron from its outermost orbit. The heavy positive nucleus exerts weaker coulomb attraction force on it as compared to an electron in the innermost shell (e.g. K shell). However, protons are in the nucleuses which are held very strongly by strong nuclear forces.

Q.4: Why is it not correct to say that potential-difference is the work done in moving a unit positive charge between the points concerned?

Ans: The potential difference is the increase in electric potential energy (or work) per unit charge. So, if a small positive charge (q_0) is moved against the electric field between the two points, then the work divided by the amount of charge (w/q_0) gives the p.d.

Q.5: Why is it logical say that the potential of an earth connected object is zero? What can be said about the charge on the earth?

Ans: Practically, the earth is taken to be at zero potential. If a charged body is connected to the earth by a conductor, electron flow takes place such that the charge of the body is neutralized.

The earth is a reason sly good conductor. It is a huge neutral body. It is considered as an Infinite sink to which electrons can easily migrate without changing its potential

Physics Electrostatics Questions And Answers

Daniela Niemeyer



Physics Electrostatics Questions And Answers:

Reviewing **Physics Electrostatics Questions And Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Physics Electrostatics Questions And Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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