

Physics ICS Part 2 Chapter 12 Online MCQ's Test

| Sr | Questions | Answers Choice |
|----|---|--|
| 1 | When the medium is insulator the electrostatic force between the charges is | A. Decreased B. Zero C. Increased D. None of above |
| 2 | The amount of energy equal to 1.6×10^{-18} J is called. | A. One volt B. One milli volt C. One electron volt D. One mega electron volt |
| 3 | SI unit of electric flux is. | A. Nm^2/C B. Nm^2/C^2 C. Nm^2/C D. Nm^2/C^2 |
| 4 | A capacitor stores energy in the form of. | A. Magnetic field B. Heat energy C. Electrical energy D. Mechanical energy |
| 5 | Selenium is a | A. Insulator B. Photoconductor C. Conductor D. First insulator then conductor |
| 6 | The relative permittivity of air is | A. 79.5 B. 1.006 C. 1.06 D. 1.0006 |
| 7 | For computation of electric flux, the surface area should be. | A. Parallel B. Flat C. Curved D. Spherical |
| 8 | Electric potential at a distance "r" from "q" is: | A. $V = \frac{q}{4\pi\epsilon_0 r^2}$ B. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$ C. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r}$ D. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$ |
| 9 | Selenium is | A. Insulator is dark B. Insulator in light C. Conductor in dark D. Semi conductor in dark |
| 10 | The total flux through a closed surface. | A. Directly proportional to shape and geometry B. Independent of medium C. Depend on shape and geometry D. Dependent on medium and the charge enclosed |
| 11 | A charge Q is divided into two parts q and Q-q and separated by a distance R. The force of equilibrium between them will be maximum when: | A. $q=Q/4$ B. $q=Q/2$ C. $q=Q$ D. None of these |
| 12 | A proton is about 1840 time than an electron. When it is accelerated by a potential difference if 1 kV, its kinetic energy will be: | A. 1884 ke V B. 1/1840 keV C. 1 keV D. 920 keV |
| 13 | One of the applications of electrostatic induction is | A. Laser B. Photocopier C. X ray machine D. Wilson cloud chamber |
| 14 | In Millikan's oil drop experiment a charged particle of mass 'm' is in equilibrium in an will | A. Zero B. $g/2$ C. g D. 2g |
| 15 | Coulomb's force is: | A. Conservative force B. None conservative force C. Similar to frictional force |

| | | |
|----|--|--|
| | | D. None of the above |
| 16 | Presence of dielectric between two charges always. | A. Reduces the electric force B. Enhance the electric force C. Does not effect electric force D. Double the electric force |
| 17 | If the distance between the two charged bodies is halved, the force between them becomes. | A. Double B. Half C. Four times D. One times |
| 18 | Electro encephalon graph is the diagnostic test for the working of. | A. Eye B. Heart C. Brain D. Lungs |
| 19 | Due to polarization, electric field E. | A. Increase B. Decrease C. First increases then decreases D. Remain same |
| 20 | A capacitor is charged with a battery and then it is disconnected. A slab of dielectric is now inserted between the plates, Then | A. The charge in the plates reduces and potencial difference increase B. Potencial difference between the plates increase, stored energy decreases and charge remains the same C. Potencial difference between the plates decreases, stored energy decreases and charge remains unchanged D. None of them |