

## Physics ICS Part 2 Chapter 12 Online MCQ's Test

Sr	Questions	Answers Choice
1	The middle region of electric field is:	A. Maximum field spot B. Zero field spot C. Perpendicular field spot D. All of above
2	Which one of the following is correct	A.   D. All of above
3	Two metallic sphere of radius 2 cm and 4 cm get equal quantity of charge. Which has greater surface charge density ?	A. 2 <sup>nd</sup> sphere B. Both have same C. First sphere D. None of these
4	In Millikan's oil drop experiment a charged particle of mass 'm' is in equilibrium in an oil	A. Zero B. g/2 C. g D. 2g
5	Flux through any closed surface is:	A. $1/\epsilon$ times the total charge enclosed in it B. $\epsilon$ time the total charge enclosed in it C. $1/\epsilon$ ties the total charge enclosed in it D. $\epsilon$ time the total charge enclosed in it
6	An electric field cannot deflect	A. X-rays B. $\alpha$ -particles C. $\beta$ -particles D. None of these
7	Electric field intensity at a point is defined by the relation.	A. $E = q/F$ B. $E = F/q$ C. $E = qF$ D. $E = F/q^2$
8	Coulomb's force is:	A. Conservative force B. None conservative force C. Similar to frictional force D. None of the above
9	The absolute electric potential at a point distance 20 cm from a charge of 2 $\mu$ C is.	A. $9 \times 10^2$ V B. $9 \times 10^3$ V C. $9 \times 10^4$ V D. $9 \times 10^5$ V
10	Electric potential of earth is taken to be zero because the earth is good:	A. Semiconductor B. Conductor C. Insulator D. Dielectric
11	The electrostatic force between two charges is 42 N, If we place a dielectric of $E_r = 2.1$ between the charges then the force become equal to.	A. 42 N B. 88.2 N C. 20 N D. 2 N
12	The net charge on a capacitor magnitude of charge of charge	A. Infinity B. 2 q C. Q/2 D. Zero
13	The process of copying is:	A. Axillugraphy B. Chromatography C. Xerography D. Spectrography
14	SI unit of electric flux is.	A. $Nm^2$ B. $Nm^{-1}$ C C. $Nm^2 C^{-1}$ D. $Nm^3 C^2$
15	An ECG records the _____ between points on human skin generated by electric process in the heart.	A. Heart beat B. Pulse rate C. Pressure D. Voltage

D. Voltage

16	Two oppositely charged balls A and B attract the third ball C, when placed near them turn by turn The third ball C must be.	A. Positively charged B. Negatively charged C. Electrically neutral D. Positively and negatively charged
17	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 potential difference increase B. Potential difference between the plates increase, stored energy decreases and charge remains the same C. Potential difference between the plates decreases, stored energy decreases and charge remains unchanged D. None of them
18	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
19	A changing electric flux creates.	A. Electric fields B. Gravitational C. Magnetic field D. Electric charge
20	The force of Neutron due to field of $10^2$ N/C is.	A. $1.6 \times 10^{-17}$ N B. $1.6 \times 10^{-19}$ N C. Zero D. $1.6 \times 10^{-21}$ N