

Physics FSC Part 2 Chapter 12 Online MCQ's Test

Sr	Questions	Answers Choice
1	The electric field in some region of space is uniform in magnitude and direction. Which one of the following five statements best describes the volume charge density (ρ), in this region of space?	<p>A. $\rho = 0$</p> <p>B. ρ decreases linearly in the direction of the electric field</p> <p>C. ρ increases linearly in the direction of the electric field</p> <p>D. ρ has a uniform value throughout the region</p> <p>E. </p>
2	The absolute electric potential at a point distance 20 cm from a charge of 2 μC is.	<p>A. 9×10^2 V</p> <p>B. 9×10^3 V</p> <p>C. 9×10^4 V</p> <p>D. 9×10^5 V</p>
3	Electric field intensity at a point is defined by the relation.	<p>A. $E = q/F$</p> <p>B. $E = F/q$</p> <p>C. $E = qF$</p> <p>D. $E = F/q^2$</p>
4	The relative permittivity of air is	<p>A. 79.5</p> <p>B. 1.006</p> <p>C. 1.06</p> <p>D. 1.0006</p>
5	Net charge enclosed by Gaussian surface is:	<p>A. zero</p> <p>B. maximum</p> <p>C. depend on intensity</p> <p>D. none of all</p>
6	The toner of printer is given	<p>A. Positive charge</p> <p>B. Negative charge</p> <p>C. Neutral</p> <p>D. First positive then negative</p>
7	If the distance between the two charged bodies is halved, the force between them becomes.	<p>A. Double</p> <p>B. Half</p> <p>C. Four times</p> <p>D. One times</p>
8	The electric intensity due to two oppositely charged plates is	<p>D. None of these</p>
9	The net charge on a capacitor magnitude of charge of charge	<p>A. Infinity</p> <p>B. 2 q</p> <p>C. Q/2</p> <p>D. Zero</p>
10	The capacitance of a capacitor depends upon.	<p>A. Thickness of plates</p> <p>B. Charges on the plates</p> <p>C. Voltage applied</p> <p>D. Geometry of the capacitor</p>
11	A capacitor stores energy in the form of.	<p>A. Magnetic field</p> <p>B. Heat energy</p> <p>C. Electrical energy</p> <p>D. Mechanical energy</p>
12	An ECG records the _____ between points on human skin generated by electric process in the heart.	<p>A. Heart beat</p> <p>B. Pulse rate</p> <p>C. Pressure</p> <p>D. Voltage</p>
13	A capacitor is perfect in insulator for.	<p>A. Alternating current</p> <p>B. Sparking current</p> <p>C. Eddy current</p>

D. Direct current

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| 14 | If a charged body is moved against the electric field it will gain. | A. P.E.
B. K.E.
C. Mechanical energy
D. Electrical potential energy |
| 15 | Special organs called ampullae of Lorenzini are present in. | A. Bats
B. Cats
C. Dogs
D. Sharks |
| 16 | The electric flux through closed surface depends upon | A. Charge
B. Medium
C. Geometry
D. Charge and Medium |
| 17 | The force between two charges is 28 N. If paraffin wax of relative permittivity 2.8 is introduced between the charges as medium, then the force reduces to. | A. 25 N
B. 20 N
C. 10 N
D. 15 N |
| 18 | Which one of the following is correct | A. All of above
D. All of above |
| 19 | NC-1 is the SI unit is | A. Force
B. Charge
C. Current
D. Electric intensity |
| 20 | Two metallic spheres of radius 2 cm and 4 cm get equal quantity of charge. Which has greater surface charge density ? | A. 2 nd sphere
B. Both have same
C. First sphere
D. None of these |