

MDCAT Physics Chapter 6 Electrostatics Online Test

Sr	Questions	Answers Choice
1	A charge of 2C experiences a force 2000N in a uniform electric field. In this fieldthe potential difference between two points separated by a distance 1cm is	A. 2V B. 10V C. 5V D. 20V
2	Capacitance of a capacitor does not depend upon	A. Separation between plates B. Thickness of the plates C. Area of the plates D. Medium between the plates
3	Two point charges repel each other with a force of 4× □□−□ newton at a distanceof meter. Two charges are	A. Both positive B. Alike C. Both Negative D. Unlike
4	The potential difference between head and tail of an "electric eel" can be upto.	A. 6V B. 60V C. 6000V D. 600V
5	The relative permittivity of air is	A. 1 B. 3.7 C. 7.8 D. 1.0006
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7	Area under Q-V graph for a capacitor represents	A. Charged stored B. Energy stored C. Electric field strength D. Potential difference
8	When a dielectric is inserted between the plates of a capacitor, Which one is true	A. Energy stored increase B. Energy stored decrease C. Capacitance decrease D. All
9	Two charges of equal magnitudes and at a distance r exert a force F on each other. If the charges are halved and distance between them is doubled, then the new force acting on each charge is:	A. F/8 B. F/4 C. F/16 D. 4F
10	Charge on a capacitor is 50C. if voltage applied across its plates is 10V then its capacitance:	A. 5F B. 0.02F C. 500F D. 0.2F
11	An electron is moving towards high potential. Its electrical P.E:	A. Increases B. Remains constant C. Decrease D. May increase may decrease
12	A body gets positive charge. It means that:	A. It has lost electrons B. It has gained positions C. It has gained protons D. It has gained □ −particles
13	A parallel plate air capacitor is charged and then isolated. When a dielectric material is inserted between the plates of the capacitor , then which of the following does not change:	A. Electric field between the plates B. Charge on the plates C. Potential difference across the plate D. Energy stored in the capacitor
14	A charged conductor has charged on its:	A. Outer surface B. Surrounding surface C. Inner surface D. Middle point
15	A soap bubble is give a negative charge, then its radius:	A. Decrease B. Remains same C. Increases

		D. Bubble will disappear
16	Two point charges +2 coulombs and +6 coulombs repel each other with a force of 12 N if a charge -4 coulomb is given to each of these charges the force will be:	A. 4N repulsive B. 8N repulsive C. 4N attractive D. 8N attractive
17	If the magnitude of charge on each of two objects is doubled and the distance between them is also doubled then force between them:	A. Doubled B. Quadrupled C. Halved D. Remains same
18	Which one of the following statements regarding electrostatics is wrong?	A. Charge is conserved B. Charge is quantized C. There is no field near an isolated charge at rest D. A moving charge produces both electric and magnetic fields
19	An electric field can deflect:	A. X-rays B. Neutrons C. -particles D. -rays
20	If the distance between the plates of a parallel plates capacitor is increased, its potential will:	A. Remain the same B. Increase C. Decrease D. Decrease exponentially