

## PPSC Physics Chapter 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	The spacing of electric field lines between two identical point charges of opposite signs	A. Is not indication of the field direction B. Is not dependent on the magnitude of the charges C. Is an indication of the field strength D. Is large when the charges are very large
2	Electrostatic force as compared to gravitational force is	A. Zero B. infinite C. Very weak D. Very strong
3	The field inside a hollow spherical conductor is.	A. Constantin zero B. Constant but not necessarily zero C. A function of charge on sphere D. a function of distance from the centre
4	What is the part of a simply D.C. motor that reverses the direction of current through the coil every half cycle.	A. Armature B. Brushes C. Commutator D. Slip rings
5	What happens when a 250 V, 2500 W water heater is connected to main supply using a plug fitted with a 5 A fuse.	A. The fuse in the plug melts B. The hearter burns out C. The hearter runs at half power D. The hearter works normally
6	A torch bulb uses a 3 V supply and makes a current of 0.2 A It is switched on for one minute How much electrical energy is used.	A. 0.6 J B. 12 J C. 24 J D. 36 J
7	A heater which is to be used on a 250 V mains circuit, has a 5 A fuse in its plug Which of the following is the most powerful heater that can be used with this fuse.	A. 150 W B. 500 W C. 1,000 W D. 2,000 W
8	If a charged body is moved against the electric field it will gain.	A. P.E B. K.E. C. Electrical P.E. D. Gravitational energy
9	Condenser is used	A. To produce charge B. To change the direction of current C. To collect the charge D. As a good conductor of electricity
10	The relation between the voltage and current that flows in a resistor is.	A. $V = 1/R$ B. $R = vi$ C. $V = I^2 R$ D. $I = V/R$
11	Magnetic fields do not interact with	A. Stationary electric charges B. Stationary permanent magnets C. Moving electric charges D. Moving permanent magnets
12	The force experienced by a unit positive charge at that point placed in an magnetic field is known as.	A. Electric field intensity B. Electric flux C. Electric potential D. Electric dipole
13	A pair of point charges with equal magnitude and opposite sign separated by a distance 'r' produce.	A. Electric dipole B. Electric charge C. Electric field D. electric arc
14	Which of the following defines P.E. per unit charge.	A. Electric current B. Charges C. Potential D. Electric field

15	Which of the following does not reflect the laws of static charges.	A. like charges repel B. Opposite charges attract C. Neutral charges repel D. Neutral objects are attracted to charged ones.
16	What is the about the electric field inside a metallic sphere.	A. It is zero B. It varies with the shape of the conductor C. It depends on the charge there D. It does not charge the metallic sphere
17	When a balloon sticks to the whiteboard It is an example of.	A. Conoduction B. Induction C. Polarization D. Conservation of charge
18	Which method of charging is involved in making lightning.	A. Induction B. Friction C. Contact D.  Convection
19	When a positive charge is allowed to move from positive to negative plate, then it will gain	A. P.E. B. K.E C. Gravitational energy D. Electrical P.E.
20	The capacity of a spherical conductor is numerically equal to its.	A. Surface area B. Diameter C. Radius D. Volume