

## PPSC Physics Topic 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	What is the range of values of power factor.	A. 0 to -1 B. 0 to +1 C. 0 to 2 D. 2 to 3
2	If the output voltage is not smooth but pulsating then it can be made smooth by using a circuit known as.	A. Filter B. Gate C. shunt D. Fuse
3	In an A.C. circuit the current.	A. Is in phase with voltage B. Leads the voltage C. Lags the voltage D. Any of these depending upon the circumstances
4	Capacitance is directly proportional to	A. Distance between the plates B. Di electric strength C. Area of the plates D. Charge multiplied by the applied voltage
5	The force exerted by two charged bodies on another obeys Coulomb's law provided that	A. Both bodies are in the same medium B. the charges are not too great C. On body does not lie inside the other D. The linear dimensions of the body are very much less than the distance between the bodies.
6	Such substance which undergo plastic deformation until they break are known as.	A. Diatomic substances B. Monoatomic substances C. Ductile substances D. Brittle substances
7	Which quantity is not affected by a magnetic field.	A. Moving charge B. Stationary charge C. Current flowing in a conductor D. Charge in magnetic flux
8	Which material has the largest resistivity.	A. Silver B. Germanium C. Amber D. Sulphur
9	Why does a transformer have a core made of iron.	A. Iron has a high melting point B. Iron is a magnetic material C. Iron potential and high current D. Iron is a conductor of electricity
10	When light emitting diode is forward biased, it emits light of the colour	A. Red B. Yellow C. Green D. All of these
11	What is the direction of the magnetic field lines inside a bar magnet.	A. From north pole to south pole B. From south pole to north pole C. From side to side D. There are no magnetic field lines
12	In a charged capacitor the energy resides	A. In the negative plate B. In the positive plate C. In the field between the plates D. Around the edge of the plates
13	A pure capacitor is connected in an AC circuit The power factor of the circuit will be.	A. Unity B. Infinity C. 0.5 D. Zero
14	On which factor mutual induction of two coils does not depend upon.	A. Number of turns of the coils B. Area of cross section of the coils C. Closeness of the coils

D. Shape of the coils

15	In which process the passage of an electric current through a conductor releases heat.	A. Joule heating B. Ohmic heating C. resistive heating D. All of these
16	In half wave rectifier the rms value of A.C. component of the wave is.	A. More than A.C. Value B. Less than D.C. value C. Same as that of D.C. D. Not detectable
17	Which physical law expresses the relationship between the heat generated and the current through a conductor.	A. Ohm's law B. Kirchoff's law C. Joule's law D. Ampere's law
18	The terminals of a battery are joined by a length of resistance wire Which change on its own will increase the current though the battery.	A. Connecting the wire with plastic insulation B. Covering the wire with plastic insulation C. Using a shorter wire of the same material and the same thickness D. Using a thinner wire of the same material and the same thickness
19	Electromotive force is closely related to.	A. Inductance B. Magnetic flux density C. Potential difference D. Electric field intensity
20	To measure the accurate value of potential difference across two points, the voltmeter should have.	A. Zero resistance B. small resistance C. Large resistance D. Infinite resitance