

PPSC Physics Topic 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	For capacitors connected in series.	A. The difference of potential is same for an B. The charge on each is the same C. The resultant capacitance is greater than D. The charge on each is not the same
2	Conductance is the reciprocal of	A. Inductance B. Capacitance C. Resistance D. Admittance
3	Which device converts alternating current to direct current.	A. Motor B. Generator C. Transformer D. Rectifier
4	Which of the given factors is increased in a step down transformer.	A. Voltage B. Current C. Wattage D. Resistance
5	A semiconductor diode conducts only when it is	A. Not biased B. Zero biased C. Reverse biased D. Forward and biased
6	The resistance of a coil changes directly with	A. The current of A.C. B. The frequency of A.C C. The inductance D. Both B and C
7	Which of these is not a method of charging.	A. Friction or rubbing B. Induction C. Contact or touching D. Convection
8	According to Coulomb's law what happens to the attraction of two oppositely charged objects as their distance of separation increases.	A. Increase B. Decrease C. Remain unchanged D. Cannot be determined
9	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
10	At low frequency the value of resistance of certain capacitors is.	A. small B. Large C. Moderate D. Unmeasurable
11	Which of the following quantity is analogous to temperature in electricity.	A. Charge B. Resistance C. Inductances D. Potential
12	The impedance of a pure anti resonant circuit at resonance is.	A. Zero B. Unity C. Infinity D. 0.5
13	The magnetic force is simply a	A. Reflecting force B. Deflecting force C. Restoring force D. Gravitational force
14	What is the effect on the product of resistivity and conductivity if the temperature of a conductor is increased.	A. It decreases B. It increases C. It remains the same D. It may increase or decrease
		A. Surface area

15	The capacity of a spherical conductor is numerically equal to its.	B. Diameter C. Radius D. Volume
16	What is the power factors of wattles current.	A. Infinity B. Unity C. 0.5 D. Zero
17	Which law states that an induced current is always in such a direction as to oppose the motion or change causing it.	A. Ampere's law B. Gauss's law C. Lenz's law D. Kirchoff's law
18	The ratio of the rms value of the applied voltage to the rms value of resulting A.C. is called.	A. Reluctance B. Impedance C. Reactance D. Resistance
19	A charge kept at the centre of a shell The shell has charge Q and radius R The force on the central charge due to shell is	A. in the upward direction B. Towards left C. Towards right D. Zero
20	For which material magnetic susceptibility is negative.	A. Paramagnetic B. Diamagnetic C. Ferromagnetic D. All of these