

PPSC Physics Chapter 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	Two wires P and Q each of same length and the same material are connected in parallel to a battery. The diameter of P is half that of Q. What fraction of the total current passes through P.	A. 0.02 B. 0.25 C. 0.33 D. 0.50
2	An electrical source with internal resistance r is said to operate a lamp of resistance R what fractions of the total power is delivered to the lamp.	A. $R+r/R$ B. $R-r/R$ C. $R/R+r$ D. $r/R-r$
3	For which material magnetic susceptibility is negative.	A. Paramagnetic B. Diamagnetic C. Ferromagnetic D. All of these
4	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
5	The property of an object that causes it to create a magnetic field in opposition to an externally applied magnetic field is.	A. Paramagnetism B. Diamagnetism C. Ferromagnetism D. Demagnetism
6	Which of the following materials has highest magnetic susceptibility.	A. Uranium B. aluminium C. Platinum D. Sodium
7	Which law states that magnetization is inversely proportional to temperature for a fixed value for the field.	A. Curie's law B. Voltmeter C. Ammeter D. Wattmeter
8	The vertical component of earth's magnetic field is zero.	A. At magnetic poles B. At geographical poles C. At magnetic equator D. Everywhere
9	A current carrying loop lying in a magnetic field behaves like a.	A. Magnetic pole B. Magnetic material C. Magnetic dipole D. Horse shoe magnet
10	Magnetic lines of force due to earth's horizontal magnetic field are.	A. Curved lines B. Elliptical C. concentric circles D. Parallel and straight
11	The ratio of average induced emf to the rate of changing of current in the coil is called.	A. Self induction B. Mutual induction C. Self inductance D. Mutual inductance
12	The phenomenon in which a changing current in one coil induces an emf in another coil is called.	A. Induced current B. Induced emf C. Self induction D. Mutual induction
13	An expression for total work done by the battery to move charge against an induced emf is equal to.	A. $W = LI^2$ B. $W = 1/2 LI$ C. $W = 1/2 LI^2$ D. $W = 1/2 LI^2$
14	On which factor does self induction not depend upon.	A. Number of turns of the coil B. the core material C. Weight of the coil D. Area of the cross section of the coil
15	On which factor does mutual induction of two coils not depend upon.	A. Number of turns of the coils B. Area of cross section of the coils C. Closeness of the coils D. Material of the coils

16	Faraday's law deals with	A. Induced emf B. Motional emf C. Induced current D. Electric current
17	The SI unit of mutual induction a	A. Vs-1 A-1 B. V m -1 A-1 C. Henry D. Tesla
18	Electric Heater operates on the principle of.	A. electromagnetism B. Electromagnetic induction C. Electrolysis D. Momentum
19	The Lenz's law is also a statement of the law of conservation of.	A. Energy B. Mass C. Momentum D. Torque
20	Which of the following is most suitable for the core of the electromagnetism	A. Air B. Steel C. Su Ni allow D. Soft iron