Physics ICS Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	The working principle of transformer is.	A. Self induction B. Faraday's law C. Mutual induction D. Electromagnetic induction
2	The movement of conductor in magnetic field produces electrical current was discovered in:	A. 1931 B. 1731 C. 1842 D. 1831
3	The induced emf in a coil is proportional to:	A. Magnetic flux through the coil B. Rate of change of Magnetic flux through the coil C. Area of the coil D. Product of magnetic flux flux and area of the coil
4	If D.C. input for step up transformer, the output is	A. Zero B. High C. Low D. May be high or low
5	1 Henry =	A. VSA⁻¹ B. VS⁻¹A⁻¹ C. V⁻¹SA D. VSA⁻²
6	If 10 A current passes through 100 mH inductor, then energy stored is.	A. 100 J B. 5 J C. 20 J D. Zero
7	Electromagnetic induction is exactly according to law of:	A. Momentum B. Charge C. Energy D. Mass
8	The motional emf depends upon the	A. Length of conductor B. Speed of conductor C. Strength of magnet D. All of these
9	When motor is just started, back emf is almost.	A. Maximum B. Zero C. Minimum D. Infinite
10	Efficiency of transformer does not affected by	A. Input voltage B. Core of transformer C. Insulation between sheet D. Resistance of coils
11	In a coil current change from 2 to 4 A in .05 s . If the average induced emf is 8 V then coefficient of self-inductance is:	A. 0.2 henry B. 0.1 henry C. 0.8 henry D. 0.04 henry
12	The motional emf is give by	A. qvB B. lBL C. eBL D. vBL
13	Self inductance of a long solenoid is given by	D. None of the above
14	EMF is induced due to change in	A. Charge B. Current C. Magnetic flux D. Electric field
15	If force in the direction of velocity of conductor, then induced current is directed,	A. Anti clockwise B. Clock wise C. At equilibrium D. None of above

16	The unit of induced emf is	A. Ampere B. Volt C. Joule/coulomb D. Both (b) and (c)
17	In D.C. generator, split rings act as.	A. Capacitor B. Commutator C. Resistor D. Inductor
18	When a coil is moved in a uniform magnetic field, an induced emf is produced due of change in	A. Flux density B. Electric flux C. Magnetic flux D. Magnetic field strength
19	When a conductor moves across a magnetic field an emf is set up this emf is called.	A. Variable emf B. Constant emf C. Back emf D. Induced emf
20	The Direction of induced current is always so as to oppose the change which causes the current, is:	A. Faraday's law B. Lenz's law C. Ohm's law D. Kirchhoff' s1ast rule