

Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
SI	Questions	
1	Step up transfer has a transformation ratio of 3:2. What is the voltage in secondary , If voltage in primary is 30 V? $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac$	A. 45 V B. 15 V C. 90 V D. 300 V
2	In D.C. generator, split rings act as.	A. Capacitor B. Commutator C. Resistor D. Inductor
3	A metal rod of 1 m is moving at a speed of 1 ms-1 in a direction making an angle 30 $^{\rm O}$ with 0.5 T magnetic field . The emf produced is.	A. 0.25 N B. 2.5 N C. 0.25 V D. 2.5 V
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	The induction can be increased by winding the wire around a core made of.	A. Copper B. Silicon C. Iron D. Aluminum
6	The north pole of a magnet is brought near a metallic ring. The direction of induced current in the ring will be:	A. Antoclockwise B. Clockwise C. First Clockwise and then Antoclockwise D. First anticlockwise and then Clockwise
7	The mutual inductance of the coils depends upon.	A. Stiffness of the coilsB. Density of coilsC. Material of coilsD. Geometry of the coils
8	The negative sign with induced emf in Faraday's law is in accordance with	A. Lenz's law B. Amperes law C. Boyle's law D. Gauss law
9	Eddy current is one cause energy loss in	A. A.C. generator B. Transformer C. D.C. motor D. D.C. generator
10	Energy density of an inductor is:	A. UM=1/2µ _° /B ² B. Um = 2µ _° /B C. UM = 1/2B ² /µ _° D. Um = 2B ² /µ _°
11	One henry is equal to	A. 1 ohm x 1 sec B. 1 ohm x 1 hertz C. 1 ohm x 1 metre D. All of above
12	Commutator was invented in	A. 1834 B. 1820 C. 1840 D. 1835
13	With the speed of motor, magnitude of back emf	A. Remain same B. Increase C. Decrease D. First increases then decreases
14	Michael Faraday and Joseph Henry belongs to	A. England and USA B. France and USA C. China and USA D. None of these

15	The only difference between the construction of D.C and A.C is.	A. Carbon burshesB. CoilC. CommutatorD. Magnetic field
16	Induced emf in A.C. generator can be increased by	A. Decreasing area of coilB. Decreasing magnetic fieldC. Increasing area of coilD. Slowing down speed of coil
17	1 Henry =	A. VSA ⁻¹ B. VS ⁻¹ A ⁻¹ C. V ⁻¹ SA D. VSA ⁻²
18	If 10 A current passes through 100 mH inductor, then energy stored is.	A. 100 J B. 5 J C. 20 J D. Zero
19	The illustration of the phenomenon of mutual induction is in the device of	A. Transformer B. Inductor C. A.C. Generator D. Ammeter
20	If the coil is wound on iron core, the flux through it.	A. Decreases B. Becomes zero C. Increases D. Remains constant