

## Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	SI unit of hennery which is.	A. VSA-1 B. VS-1 A C. VS-1A-1 D. VSA
2	Induced emf in A.C. generator can be increased by	A. Decreasing area of coil B. Decreasing magnetic field C. Increasing area of coil D. Slowing down speed of coil
3	When motor is just started, back emf is almost.	A. Maximum B. Zero C. Minimum D. Infinite
4	The jerks in D.C. motor are created by the use of.	A. Armature B. Commutators C. Split rings D. Source of emf
5	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
6	For inducing emf in a coil the basic requirement is that:	A. Flux should link the coil B. Change in flux should link the coil C. Coil should form a closed loop D. Both (b) and (c) are true
7	Efficiency of transformer does not affected by	A. Input voltage B. Core of transformer C. Insulation between sheet D. Resistance of coils
8	Step up transfer has a transformation ratio of 3:2. What is the voltage in secondary , If voltage in primary is 30 V?	A. 45 V B. 15 V C. 90 V D. 300 V
9	In D.C. generator, split rings act as.	A. Capacitor B. Commutator C. Resistor D. Inductor
10	Energy stored in inductor is.	A. $1/2 L I^{sup>2}$ B. $1/2 LI$ C. $1/2 L^2 I$ D. $1/2 L^2 I^2$
11	Commentator was invented by	A. Henry B. Ousted C. Maxwell D. William sturgeon
12	A simple device that prevents the direction of current from changing is called.	A. Commutator B. Rotor C. Armature D. Detector
13	By winding the coil around a less magnetic core, self induction.	A. Will increase B. Will decrease C. Remain same D. First increase then decrease
14	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
15	The unit of induced emf is	A. Ampere B. Volt C. Joule/coulomb D. Both (b) and (c)

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16 The north pole of a magnet is brought near a metallic ring. The direction of induced current in the ring will be:

A. Anticlockwise  
B. Clockwise  
C. First Clockwise and then Anticlockwise  
D. First anticlockwise and then Clockwise

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17 The motional emf depends upon the

A. Length of conductor  
B. Speed of conductor  
C. Strength of magnet  
D. All of these

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18 The device in which induced emf is statically induced emf is:

A. Transforms  
B. AC generator  
C. Elevator  
D. Dynamo

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19 A real transformer does not change.

A. Voltage level  
B. Current level  
C. Power level  
D. Frequency

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20 Energy density in an inductor is.

A. Directly proportional to magnetic field  
B. Directly proportional to square of magnetic field  
C. Inversely proportional to magnetic field  
D. Inversely proportional to square of magnetic field

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