Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	The rod of unit length is moving at 30 o through a magnetic field of 1 T. If the velocity of rod is 1 m/s, then induced emf in the rod will be given by	A. I V B. 0.25 V C. 0.5 V D. 0.6 V
2	The magnetic field is uniform and stronger	A. Outside the solenoid B. Inside the solenoid C. At the central part of the solenoid D. None of these
3	Domains are existed in	A. Ferromagnetic materials B. Paramagnetic materials C. Semi conductors D. Diamagnetic materials
4	Write the SI unit of magnetic flux.	A. Tesla B. Weber C. Weber m-2 D. Tesla m2
5	The AC system is preferred to DC system because:	A. AC voltage can be easily changed in magnitude B. DC motor angular velocity is affected badly C. High voltage AC transmission is less efficient D. Domestic appliance require AC voltage for their operation
6	For computation of electric flux, the surface area should be.	A. Parallel B. Flat C. Curved D. Spherical
7	The peak value of A.C source is 20 A, then its rms value will be.	A. 14.1 A B. 10 A C. 20 A D. 28.2 A
8	Michael Faraday and Joseph Henry belongs to	A. England and USA B. France and USA C. China and USA D. None of these
9	amu =	A. 1.06 x 10⁻²⁷ kg B. 1.6606 x 10⁻²⁷ kg C. 1.520 x 10⁻²¹ kg D. 1.6606 x 10⁻³¹ kg
10	The jerks in D.C. motor are created by the use of.	A. Armature B. Commutators C. Split rings D. Source of emf
11	If a charged body is moved against the electric field it will gain.	A. P.E. B. K.E. C. Mechanical energy D. Electrical potential energy
12	In pure capacitor A.C. circuit, the current I and charge q are.	A. In phase B. Out of phase C. Parallel to each other D. None of above
13	The average gap for Germanium at 0K is	A. 1.12 ev B. 0.02 ev C. 6.72 ev D. 7.2 ev
14	Joule second is the unit of.	A. Energy B. Wein's constant C. Planck's constant D. Boyle's law

15	Power dissipation in A.C circuit is expressed as:	A. P =I_{rms} x V_{rms} Sinθ B. IxVCosθ C. I_{rms}xV_{rms}Cosθ D. I_{rms} x V_{rms} Sin2θ
16	The drift velocity is of order:	A. 10⁻¹³m/s B. 10³ m/s C. 10⁻³m/s D. 10⁻⁴m/s
17	Mutual induction has a practical role in the performance of the.	A. Radio choke B. Transformers C. A.C. Generator D. D.C. Generator
18	Specific resistance of a material depends upon.	A. Length B. Area C. Temperature D. Both A and B
19	Heat energy is converted into electrical energy.	A. Solar cells B. thermocouples C. Electric generators D. None of above
20	Which of the following is similar to electron.	A. Beta particle B. Alpha particle C. Neutron D. Proton