

Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	In A.C circuit of inductor which one is true	A. Voltage leads current by phase angle π/2 B. Voltage lags current by π/2 C. Current leads voltage by π/2 D. Both remain in phase
2	Xc =	A. 1/2πfc B. 2πfc C. 2π/fc D. fc/2π
3	The internal resistance of a capacitor is called:	A. Impedance B. Resistance C. Reactance D. Conductance
4	In A.C circuit through a capacitor which one is:	A. Current leads voltage by 90 B. Current lags behind voltage by 90 C. Both will be in phase D. None of above
5	In purely resistive A.C circuit, instantaneous value of voltage and current:	A. Current lags behind voltage B. Current leads voltage by π/2 C. Both are in Phase D. Voltage leads current by Pase θ=π/2
6	Vrms =	A. 0.7V B. <div>0.07V</div> C. 0.007V D. 0.75V _{<}
7	The highest value reached by the voltage or current is one cycle is called:	A. Peak to peak value B. Peak value C. <div>Instantaneous value</div> D. Root mean square value
8	The main reason for world wide use of A.C is because:	A. It is very high power B. It can be transmitted over long distance C. It is cheaper to use D. ALI of above
9	The magnitude of back emf:	A. Increases with sped of motor B. Decreases with speed of motor C. Remains same D. None of above
10	Commutator was invented by:	A. William bills B. William Gates C. William tells D. William Sturgeon
11	DC generator by william Sturgeon in:	A. 1894 B. 1961 C. 1834 D. 1961
12	A current generator device converts:	A. Mechanical energy into chemical energy B. Chemical energy into electrical energy C. Mechanical energy into electrical energy D. Both b and c
13	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 _∘

14	Energy stored in an inductor is:	A. 1/2L ² I B. 1/2L ² /I C. _{1/2LI} ² D. 1/2LI
15	In self induction A coil is connected in with battery and a rheostat.	A. Parallel B. Series C. Both A and B D. None of above
16	The Si unit of Mutual inductance is:	A. VA ⁻¹ S ⁻¹ -1 C. VSA ⁻¹ D. ASV ⁻¹
17	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