Physics FSC Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	In case of A.C. through resistor V and I are	A. At 0° with each other B. At 180° with each other C. At 90° with each other D. At 270° with each other
2	SI unit of reactance is.	A. Ohm B. Mho C. Farad D. Henry
3	Power dissipation in A.C circuit is expressed as:	A. $P = I_{rms} \times V_{rms} \sin\theta$ B. $IxVCos\theta$ C. $I_{rms} xV_{rms} Cos\theta$ D. $I_{rms} \times V_{rms} Sin2\theta$
4	Power dissipated in a pure inductor is.	A. Large B. Small C. Infinite D. Zero
5	In metal detector, we use.	A. L-C circuit B. R-L circuit C. R-C circuit D. RLC series circuit
6	Phase difference between V and I of an A.C through resistor is.	A. Zero Degree B. 90° C. 80° D. 120°
7	Which consumes small power.	A. Inductor B. Resistor C. Motor D. All of these
8	In chopke coil the resistance X_L an resistance R are:	A. $X_L = R$ B. $X_L << R$ C. $X_L >> R$ D. $X_L = \infty$
9	If the frequency of A.C. supplied is doubled then the capacitive reactance becomes.	A. Half B. Two C. Four times D. One fourth
10	High frequency radio wave is called as	A. Fluctuate B. Carrier wave C. Matter wave D. Mechanical wave
11	In LR circiut which one of the following statements is correct?	A. L and R opposes each other B. R value increases with frequency C. The inductive reactance increases with frequency D. The inductive reactance decreases with frequency
12	The unit of impedance is	A. Farad B. Henry C. Tesla D. Ohm
13	An alternating voltage is given by 20 sin 157 t. Th efrequency of alternating voltage is:	A. 50 Hz B. 25Hz C. 100 Hz D. 75 Hz
14	The inductive reactance of a coil is direction proportional to.	A. Inductance B. Resistance C. Frequency of A.C.

15	An electromagnetic wave goes from air to glass which of the following does not change?	A. Radio waves B. X-rays C. Ultra violet radiation D. Ultra sond waves
16	The mean value of A.C. in a cycle is.	A. 1 B. 0 C. I2 D. Nil
17	Power dissipation is a pure inductive or in a pure capacitance circuit is:	A. 10^6 B. 0 C. 10° D. Maximum
18	The value of capacitive reactance is given by	A. Xc = VI B. xc= 1/wc or xc= wL C. xc= 1*wc or xc=Lw D. All of above
19	The resonance frequency is given by:	A. fr = 2π√LC B. fr = 1/2πLC C. fr = 1/ 2π√LC D. f1 = 1/ 2πC√L
20	The wave form of alternating voltage is a	A. Cotangent curve B. Cosine curve C. Sine curve D. Tangent curve