

Physics ICS Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	$V_{rms} =$	A. $0.7V$ B. $0.07V$ C. $0.007V$ D. $0.75V$
2	The inductive reactance of a coil is directly proportional to.	A. Inductance B. Resistance C. Frequency of A.C. D. Both frequency of A.C. and inductance
3	In a pure inductive A.C. circuit the current.	A. Lags behind voltage by 90° B. Leads the voltage by 90° C. In phase with voltage D. Leads the voltage by 270°
4	In LR circuit 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
5	An alternating voltage is given by $20 \sin 157 t$. The frequency of alternating voltage is:	A. 50 Hz B. 25 Hz C. 100 Hz D. 75 Hz
6	Average value of current and voltage over a complete cycle is.	A. Positive B. Negative C. Zero D. Infinite
7	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
8	$X_L =$	A. $2\pi f L$ B. $1/2\pi f L$ C. $2\pi f L$ D. $f L/2\pi$
9	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
10	In case of capacitor, the unit of reactance is	A. Farad B. Ohm C. Newton D. All of these
11	Phase difference between V and I of an A.C through resistor is.	A. Zero Degree B. 90° C. 80° D. 120°
12	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. All of above
13	At resonance frequency, the impedance of RLC series circuit is.	A. Maximum B. Minimum C. Zero

14 Which consumes small power.
A. Inductor
B. Resistor
C. Motor
D. All of these

15 The reactance is the ratio of
A. V_{rms}/I_{rms}
B. $V_{rms} \times I_{rms}$
C. I_{rms}/V_{rms}
D. $V_{max} \times V_{rms}$

16 The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:
A. 5A
B. 2.5A
C. $5\sqrt{2}$ A
D. $5\sqrt{2}$ A

17 During each cycle A.C. voltage reaches a peak value.
A. Once
B. Twice
C. Thrice
D. Four time

18 The flow of D.C current is opposed by
A. Resistor
B. Induction
C. Capacitor
D. All of these

19 The circuit in which current and voltage are in phase, the power factor is:
A. Zero
B. 1
C. -1
D. 2

20 The natural frequency of L.C circuit is equal to