

Physics FSC Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	Main reason for world wide use of A.C. is	A. It is cheaper B. Transmitted C. Both a and b D. Reaches in short time
2	Power dissipation is a pure inductive or in a pure capacitance circuit is:	A. 10^6 B. 0 C. 10^{-6} D. Maximum
3	At resonance, the behavior of R-L-C series circuit is.	A. Resistive B. Capacitive C. Inductive D. Modulative
4	If I_0 is the peak value of current, then its root mean square value is given by	B. $2 I_0$ C. I_0 D. $0.7 I_0$
5	Choke consumes extremely small	A. Current B. Charge C. Power D. Potential
6	The sum of positive and negative peak value called.	A. R.M.S. value B. P-P value C. Peak value D. Average value
7	The natural frequency of L.C circuit is equal to	
8	In A.C circuit of inductor which one is true	A. Voltage leads current by phase $\pi/2$ B. Voltage lags current by $\pi/2$ C. Current leads voltage by $\pi/2$ D. Both remain in phase
9	An alternating quantity (voltage or current) is completely known if we know its:	A. Maximum B. Frequency and phase C. Effective value D. Both (a) & (b)
10	The mean value of A.C. in a cycle is.	A. 1 B. 0 C. I_2 D. Nil
11	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°
12	Unit of impedance is:	A. Ohm B. Ohm^{-1} C. no unit D. Ohm m^{-1}
13	In frequency modulation which factor changed.	A. Amplitude of charge carriers B. Frequency of charge carriers C. Amplitude of signal D. Frequency of signal
14	The phase difference between current and voltage in an inductive circuit is.	A. zero B. 90° C. 180° D. 45°
15	Power dissipation in A.C circuit is expressed as:	A. $P = I_{\text{rms}} \times V_{\text{rms}} \sin\theta$ B. $I V \cos\theta$ C. $I V \sin\theta$ D. $P = I_{\text{rms}} \times V_{\text{rms}} \cos\theta$

$I_{\text{rms}} \times V_{\text{rms}} \cos \theta$
D. $I_{\text{rms}} \times V_{\text{rms}} \sin 2\theta$

16 $V_{\text{rms}} =$

- A. $0.7V$
- B. $0.07V$
- C. $0.007V$
- D. $0.75V$

17 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

18 The device which allows only the flow of D.C. is.

- A. Capacitors
- B. transformer
- C. Inductor
- D. Generator

19 $X_L =$

- A. $2\pi fL$
- B. $1/2\pi fL$
- C. $2\pi fL$
- D. $fL/2\pi$

20 The power factor of RL series circuit is.

- A. 0
- B. 1
- C. Less than 1
- D. More than one