

Physics ICS Part 2 Chapter 16 Online MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | The reactance of inductor depends upon | A. L D. All of the above |
| 2 | The Basic circuit element in a D.C. circuits which controls the current and voltage is | A. Resistor B. Inductor C. Capacitor D. Transistor |
| 3 | The peak to peak value of alternating voltage is | A. $2V_0$ B. V_0 D. None of these |
| 4 | At high frequency, the current through a capacitor is | A. Small B. Infinity C. Zero D. Large |
| 5 | The highest value reached by the voltage or current in one cycle is called: | A. Peak to peak value B. Peak value C. Instantaneous value D. Root mean square value |
| 6 | The resonance frequency is given by: | A. $f_r = 2\pi\sqrt{LC}$ B. $f_r = 1/2\pi LC$ C. $f_r = 1/2\pi\sqrt{LC}$ D. $f_1 = 1/2\pi C\sqrt{L}$ |
| 7 | $V_{rms} =$ | A. $0.7V_0$ B. $0.07V_0$ C. $0.007V_0$ D. $0.75V_0$ |
| 8 | 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 |
| 9 | The value of capacitive reactance is given by | A. $X_c = VI$ B. $X_c = 1/\omega C$ or $X_c = \omega L$ C. $X_c = 1/\omega C$ or $X_c = \omega L$ D. All of above |
| 10 | The power factor of RL series circuit is. | A. 0 B. 1 C. Less than 1 D. More than one |
| 11 | In frequency modulation which factor changed. | A. Amplitude of charge carriers B. Frequency of charge carriers C. Amplitude of signal D. Frequency of signal |
| 12 | 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° |
| 13 | The A.M. transmission frequencies range from | A. 540 KHz to 1000 KHz B. 540 KHz to 1600 KHz C. 520 KHz TO 1600 KHz D. 520 KHz TO 1400 KHz |
| 14 | In RLC series circuit at resonance the phase difference between capacitor and inductor reactance is. | A. 90° B. 270° C. 0° D. 180° |
| 15 | Direct current can not flow through. | A. Inductor B. Resistor C. Transistor |

D. Capacitor

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| 16 | Impedance is denoted by: | A. A B. Z C. P D. Q |
| 17 | In metal detector, we use. | A. L-C circuit B. R-L circuit C. R-C circuit D. RLC series circuit |
| 18 | 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. 5^2 |
| 19 | The reactance is the ratio of | A. V_{rms}/I_{rms} B. $V_{rms} \times I_{rms}$ C. I_{rms}/V_{rms} D. $V_{max} \times V_{rms}$ |
| 20 | In Series resonance circuit the impedance of circuit at resonance frequency, is | A. Maximum B. Minimum C. It is unequal to R D. None of above |