

## PPSC Physics Chapter 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	Wattless current is said to flow when phase angle between virtual current and virtual voltage is	A. 0 <sup>o</sup> B. 90 <sup>o</sup> C. 180 <sup>o</sup> D. 270 <sup>o</sup>
2	Such an inductor coil which does not consume energy and is often employed for controlling A.C. without consumption of energy is called.	A. Reactance B. Choke C. Impedence D. Diode
3	The resistance of a coil changes directly with	A. The current of A.C. B. The frequency of A.C. C. The inductance D. Both B and C
4	At series resonance in L-C-R circuit the impedance is equal to.	A. Ohmic resistance B. Inductive reactance C. Capacitive reactance D. Inductive reactance minus capacitive reactance
5	In which of the following the loss of energy is less.	A. Direct current B. Alternating current C. Thermoelectricity D. Photoelectricity
6	The phase angle between the voltage and current is A.C. circuit though a resistor is.	A. 0 <sup>o</sup> B. 45 <sup>o</sup> C. 90 <sup>o</sup> D. 180 <sup>o</sup>
7	At high frequency the current through a capacitor will be	A. Small B. Zero C. Large D. Infinity
8	At low frequency the value of resistance of certain capacitors is.	A. small B. Large C. Moderate D. Unmeasurable
9	The sum of the positive and negative peak values is known as.	A. Peak value B. Average value C. Instantaneous value D. Peak to peak value
10	Which current can pass through a capacitor continuously.	A. Alternating current B. Direct current C. Eddy current D. Pulsating current
11	The basic circuit element is a D.C. circuit is	A. An inductor B. A resistor C. A capacitor D. A battery
12	The rms value of alternating current is always	A. Infinity B. Unity C. Positive D. Negative
13	The sum of positive and negative peak values are usually written as.	A. rms value B. p-p value C. Peak value D. Instantaneous value
14	The value of voltage or current that exists in a circuit at any instant of time measured from some reference point is its.	A. Peak value B. Peak to peak value C. Instantaneous value D. Average value
15	The highest value reached by the voltage or current in one cycle is its.	A. Top value B. Maximum value C. Average value D. Instantaneous value

D. Peak value

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| 16 | With high frequencies capacitive reactance                                     | A. Increases<br>B. Decreases<br>C. Becomes double<br>D. Becomes half    |
| 17 | The value of power factor in an LCR sense circuit at resonance is.             | A. Zero<br>B. 0.5<br>C. unity<br>D. Infinity                            |
| 18 | A pure choke consumes  | A. No power<br>B. Maximum power<br>C. Minimum power<br>D. Average power |
| 19 | The resistance of 10 micro F capacitance, when connected to A D.C. circuit is. | A. Zero<br>B. Unity<br>C. -1<br>D. Infinity                             |
| 20 | A 100 Hz A.C. is following in A 7 mH inductance What is its reactane.          | A. 0.4 Ohms<br>B. 4.4 Ohms<br>C. 7Ohms<br>D. 44 Ohms                    |