

A.C Fundamentals Circuits Theory Objective Questions Pdf

1. The voltage of domestic supply is 220 V. This figure represents
- mean value
 - r.m.s.v. value
 - peak value
 - average value

Ans: B

2. Two waves of the same frequency have opposite phase when the phase angle between them is
- 360°;
 - 180°;
 - 90°;
 - 0°;

Ans: B

3. The r.ms. value and mean value is the same in the case of
- triangular wave
 - sine wave
 - square wave
 - half wave rectified sine wave

Ans: C

4. For the same peak value, which of the following wave has the least mean value?
- half wave rectified sine wave
 - triangular wave
 - sine wave
 - square wave

Ans: A

5. Form factor is the ratio of
- average value/r.m.s value
 - average value/peak value
 - r.m.s. value/average value
 - r.m.s. value/peak value

Ans: C

6. Capacitance reactance is more when
- capacitance is less and frequency of supply is less
 - capacitance is less and frequency of supply is more
 - capacitance is more and frequency of supply is less
 - capacitance is more and frequency of supply is more

Ans: A

7. Poor power factor
- reduces load handling capability of electrical system,
 - results in more power losses in the electrical system

- c. overloads alternators, transformers and distribution lines
- d. results in more voltage drop in the line
- e. all the above

Ans: E

8. The constant of an inductive circuit
- a. increases with increase of inductance and decrease of resistance
 - b. increases with the increase of inductance and the increase of resistance
 - c. increases with decrease of inductance and decrease of resistance
 - d. increases with decrease of inductance and increase of resistance

Ans: A

9. In a highly capacitive circuit the
- a. apparent power is equal to the actual power
 - b. reactive power is more than the apparent power
 - c. reactive power is more than the actual power
 - d. actual power is more than its reactive power

Ans: C

10. Power factor of the following circuit will be unity
- a. inductance
 - b. capacitance
 - c. resistance
 - d. both a and b

Ans: C

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