

A.C Fundamentals Circuits Theory MCQ Questions and Answers Pdf

1. Time 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 the decreases of inductance and decrease of resistance
 - d. increases and decrease of inductance and increase of resistance

Ans: A

2. Which of the following coil will have large resonant frequency?
- a. a coil with large resistance
 - b. a coil with low resistance
 - c. a coil with large distributed capacitance
 - d. a coil with low distributed capacitance

Ans: C

3. In A.C. circuits, laminated iron is in variably used in order to
- a. reduce eddy current loss
 - b. increase heat radiation
 - c. make assembly cheap and easier
 - d. reduce circuit permeability

Ans: A

4. The ratio of active power to apparent power is known as _____ factor.
- a. demand
 - b. load
 - c. power
 - d. form

Ans: C

5. The purpose of a parallel circuit resonance is to magnify
- a. current
 - b voltage
 - c. power
 - d. frequency

Ans: B

6. The power is measured in terms of decibels in case of
- a. electronic equipment
 - b. transformers

- c. current transformers
- d. auto transformers

Ans: A

7. Which of the following waves has the highest value of peak factor?

- a. square wave
- b. sine wave
- c. half wave rectified sine wave
- d. triangular wave

Ans: C

8. Power factor of the following circuit will be unity

- a. inductance
- b. capacitance
- c. resistance
- d. both a and b

Ans: C

9. The transient currents are associated with the

- a. changes in the stored energy in the inductors and capacitors
- b. impedance of the circuit
- c. applied voltage to the circuit
- d. resistance of the circuit

Ans: A

10. Inductance of coil

- a. is unaffected by the supply frequency
- b. decreases with the increase in supply frequency
- c. increases with the increase in supply frequency
- d. becomes zero with the increase in supply frequency

Ans: C