EET1033 H-6 Hialeah June 2018

Multiple Choice
Identify the choice that best completes the statement or answers the question.

____ 1. The current-limiting property of the inductor is called ____.
a. reactance
b. voltage
c. resistance
d. capacitance

____ 2. Reactance is symbolized by the letter ____.
a. R
b. L
c. X
d. Z

____ 3. Inductive reactance can be computed when the values of inductance and frequency are known and is measured in ____.
a. watts
b. ohms
c. vectors
d. amperage

____ 4. If two inductors, with values of 2 H and 3 H, are connected in parallel, the total inductance would equal ____ H.
a. 2
b. 1.2
c. 1
d. .83

____ 5. In a pure inductive circuit, the current lags the voltage by ____ degrees.
a. 270
b. 180
c. 90
d. 0

____ 6. Although essentially no true power is being used, an electrical instrument called VARs is used to measure the ____ in a pure inductive circuit.
a. capacitance
b. resistance
c. amperage
d. reactive power

____ 7. the symbol for impedance is the letter ____.
a. Z
b. H
c. L
d. R

____ 8. In AC circuit an inductor with L= ! H and F= 60 Hz calculate Xl in ohms
a. 280
b. 377
c. 400
d. 128

Completion
Complete each statement.

9. _____ is one of the primary types of loads in alternating current circuits because of the continually changing magnetic fields.

10. If an inductor with an induced voltage of 106 V is connected to a 120-volt AC line, there will be _____ volts to push current through the wire resistance of the coil.

11. When inductors are connected in _____, the total inductance of the circuit equals the sum of the inductances of all the inductors.

12. The total inductive reactance of inductors connected in _____ equals the sum of the inductive reactances for all the inductors.

13. In a parallel circuit, the reciprocal of the total _____ is equal to the sum of the reciprocals of all the inductors.

14. If three inductors, all with a value of 3 H, are connected in parallel, the total inductance of the circuit would be _____ H.

15. VARs is an abbreviation for _____.