Quiz (AC Circuits-II)

*Required

1. Email address *

2. Name *

3. Branch *

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TC MMFT

4. Roll No *

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6. An ac circuit consists of a pure resistance of 20 ohm and is connected to an 1 point ac supply of 282.84 Sin 314t Calculate the (i) current (ii) power consumed (iii) equation for current and (iv) frequency of supply

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_____ 10A, 2kW, 14.44 Sin(314t-π/2) , 50 Hz

_____ 10A, 2kW, 14.44 Sin314t , 50 Hz

- ____ 5A, 1450W, 14.44 Sin314t , 50 Hz
- 10A, 2000W, 282.84 Sin314t , 50 Hz
- 7. In an ac circuit consists of a pure Inductor the expression for instantaneous 1 point power is *

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8. In an ac circuit consists of a pure Capacitor the expression for instantaneous 1 point power is *

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9. In an ac circuit consists of a Resistance and a Capacitor the expression for 1 point instantaneous power is *

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10. The complex Volt Amperes in a series circuit are (4330-j2500) and the 1 point current is (25+j43.3)A. The applied voltage is: *

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25+j43.3
433-j250
86.6+j50
None of the above

A non inductive resistor of 10 ohm is in series with a capacitor of 100μF
 1 point across a 250V, 50Hz ac supply. the current taken by the capacitor and power factor of the circuit *

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- ____ 25+j43.3
- ____ 433-j250
- 86.6+j50
- None of the above
- 12. A non inductive resistor of 10 ohm is in series with a capacitor of 100μF
 1 point across a 250V, 50Hz ac supply. the current taken by the capacitor and power factor of the circuit *

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- _____ 2.24+j7.14, Cos 72.5 degree
- Both Above
- None of the above
- 13. An impedance coil in parallel with a 100µF capacitor is connected across a 1 point 200V, 50Hz supply. The coil takes a current of 4A and the power loss in the coil is 600W. the inductance of the coil will be: *

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14. An impedance coil in parallel with a 100µF capacitor is connected across a 1 point 200V, 50Hz supply. The coil takes a current of 4A and the power loss in the coil is 600W. the power factor of the circuit is *

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- 0.6365
- 0.6010
- 0.5992
- 0.3656
- 15. In power triangle, P,Q and S are Respectively: *

1 point

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- Active Power(W), Reactive Power(VA), Apparent Power(VAR)
- Active Power(W), Reactive Power(VAR), Apparent Power(VA)
- Apparent Power(VA), Active Power(W), Reactive Power(VAR),
- Apparent Power(VAR), Active Power(W), Reactive Power(VA),

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