

## QUIZ – ANSWER KEY

### QUIZ 48

#### TOPIC: ELECTRICAL ENGINEERING

1. Two waves of the same frequency have opposite phase when the phase angle between them is

- [A]  $180^\circ$
- [B]  $360^\circ$
- [C]  $90^\circ$
- [D]  $0^\circ$

**Answer: A**

2. The reciprocal of resistance is

- [A] Susceptance
- [B] Conductance
- [C] Impedance
- [D] Reactance

**Answer: B**

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3. The best place to install a capacitor is

- [A] Very near to inductive load
- [B] Across the terminals of the inductive load
- [C] Far away from the inductive load
- [D] Any where

**Answer: B**

4. The time constant of a series R-C circuit is given by

- [A]  $R/C$
- [B]  $RC^2$
- [C]  $RC$
- [D]  $R^2 C$

**Answer: C**

5. The material which has a negative temperature coefficient of resistance is

- [A] Aluminium
- [B] Copper
- [C] Brass
- [D] Carbon

**Answer: D**

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6. A dependent source

- [A] May be a current source or voltage source
- [B] Is always a voltage source
- [C] Is always a current source
- [D] Neither a current source nor a voltage source

**Answer: A**

7. Capacity of a dry cell is

- [A] Not affected by the type of discharge
- [B] More when it supplies current continuously
- [C] More when it supplies current intermittently
- [D] None of the above

**Answer: C**

8. In a lead acid cell, on discharging, both the plates change and become

- [A] Lead hydroxide
- [B] Lead peroxide
- [C] Lead oxide
- [D] Lead sulphate

**Answer: D**

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9. High current of the order of 100 A can be measured by an ammeter of 0 - 1 A rating by using

- [A] Shunt
- [B] Capacitor
- [C] R-C network
- [D] Current transformer

**Answer: D**

10. Electrical devices and appliances are not connected in series because

- [A] More power losses occur in series
- [B] Series circuit is complex to design
- [C] Devices have different current rating
- [D] All of these

**Answer: C**

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