

QUIZ – ANSWER KEY

QUIZ NO: 130

TOPIC: ELECTRICAL ENGINEERING

DATE: 29/11/2022

1. Which of the following method of measurement does a bridge circuit uses ?

- [A] relative
- [B] comparison
- [C] absolute
- [D] differential

Answer: B

Explanation: A bridge circuit makes use of a comparison measurement method. In this method the bridge compares the value of an unknown component with a standard value of a given component.

2. Which of the following is the most popular method for measuring low resistance?

- [A] ducer ohmmeter method
- [B] kelvin double bridge method
- [C] ammeter-voltmeter method
- [D] potentiometer method

Answer: B

Explanation: Kelvin's double bridge is used for the measurement of low

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resistances of the order of 1Ω or less. Ammeter voltmeter method is used for the measurement of current flowing through and the voltage across the circuit.

3. Which of the following method is used for the measurement of Medium Resistance?

- [A] Direct-Deflection method
- [B] Anderson Bridge
- [C] Kelvin's double bridge method
- [D] Carey-Foster bridge method

Answer: D

Explanation: Kelvin's double bridge method is used for measurement of Low Resistance, Anderson Bridge is not used for measurement of Resistance, and Direct-Deflection method is used for Measurement of High Resistance.

4. Which of the following is the most sensitive detector for single frequency value?

- [A] oscillator
- [B] headphone
- [C] tuned detector
- [D] vibration galvanometer

Answer: C

Explanation: A vibration galvanometer is used for detecting the balance condition. The oscillator is used as a source of the supply voltage. The tuned detector is the most sensitive detector for a single frequency value.

5. Under which of the following conditions a bridge is balanced ?

- [A] When no current flows
- [B] When the temperature of the circuit is high
- [C] When power dissipation is high

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[D] When no voltage drop across the circuit

Answer: A

Explanation: At balance condition, no current flows through the headphones present in the AC bridge circuit. As a result the detector indicates null deflection at balance condition.

6. Unknown capacitance value is obtained by _____ ?

[A] using a vibration galvanometer

[B] using capacitance of other ratio arms

[C] comparison with standard

[D] using a tuned detector

Answer: C

7. A Schering bridge can be used for the _____ ?

[A] protecting the circuit from temperature rises

[B] testing capacitors

[C] measuring voltages

[D] measuring currents

Answer: B

8. What is the dependence of frequency on the balance equation?

[A] varies by a factor of 2

[B] depends on the detector used

[C] independent

[D] depends on the supply magnitude

Answer: C

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9. Which of the following can be measured using Maxwell's Inductance Capacitance Bridge?

- [A] Capacitance
- [B] Frequency
- [C] Mutual Inductance
- [D] Inductance

Answer: D

10. When the moving coil in a Dynamometer type wattmeter deflects _____ ?

- [A] pointer doesn't move
- [B] current flows
- [C] voltage is generated
- [D] pointer moves

Answer: D

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