

## QUIZ – ANSWER KEY

### QUIZ 50

#### TOPIC: ELECTRICAL ENGINEERING

1. For the transmission of heat from one body to another it is essential that

- [A] Both bodies are solids
- [B] The two bodies are at different temperature
- [C] Both bodies are in contact
- [D] At least one of the bodies has some source of heating

**Answer: B**

2. Heat is transferred simultaneously by conduction, convection and radiation

- [A] During melting of ice
- [B] From refrigerator coils to refrigerator freeze
- [C] Inside boiler furnaces
- [D] Through the surface of the insulated pipe carrying steam

**Answer: C**

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3. The quantity of heat absorbed from the heater by convection depends upon
- [A] The temperature of the heating elements of the above surroundings
  - [B] The surface area of the heater
  - [C] The position of the heater
  - [D] All of the above

**Answer: D**

4. The material of the heating element should be
- [A] Such that it may withstand the required temperature without getting oxidized
  - [B] Of low resistivity
  - [C] Of low melting point
  - [D] Of high temperature coefficient

**Answer: A**

5. The material to be used for heating element should be of high resistivity so as to
- [A] Increase the life of the heating element
  - [B] Reduce the length of the heating element
  - [C] Reduce the effect of oxidation
  - [D] Produce large amount of heat

**Answer: B**

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6. The material to be used for heating element should be of low temperature coefficient so as to
- [A] Avoid initial inrush of current
  - [B] Avoid change in KW rating with temperature
  - [C] Reduce the effect of oxidation
  - [D] Both A and B

**Answer: D**

7. The heating element to be used in a furnace employed for heating around 16000C should be of material
- [A] Nichrome
  - [B] Eureka
  - [C] Molybdenum
  - [D] Silicon carbide

**Answer: C**

8. In a resistance furnace the temperature is controlled by
- [A] Variation of operating voltage
  - [B] Variation of resistance of heating circuit
  - [C] Switching on and off the supply periodically
  - [D] All of the above

**Answer: D**

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9. For temperature control in resistance furnaces resistance variation can be affected by connecting resistance elements in

- [A] Series
- [B] Parallel
- [C] Series-parallel
- [D] Star or delta
- [E] Any of the above

**Answer: E**

10. The simplest and most commonly used method for temperature control is

- [A] External series resistance in the heating circuit
- [B] Change of connections of heating circuit
- [C] Use of variable number of heating elements
- [D] Transformer tapings

**Answer: B**

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