

## QUIZ – ANSWER KEY

### QUIZ 55

#### TOPIC: ELECTRICAL ENGINEERING

1. Which of the following statement is true for Thevenin's Theorem?

- [A] Equivalent constant current source and parallel resistance
- [B] Equivalent current source and series resistance
- [C] Equivalent constant voltage source and series resistance
- [D] Equivalent constant voltage source and parallel resistance

**Answer: C**

2. Which of the following generating stations has the minimum running cost?

- [A] Hydro-electric station
- [B] Nuclear power station
- [C] Thermal power station
- [D] Diesel power plant

**Answer: A**

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3. A commutator in a DC generator

- [A] Reduces power loss in armature
- [B] Reduces power loss in field circuit
- [C] Converts the induced a.c armature voltage into direct voltage
- [D] None of the above

**Answer: B**

4. The introduction of interpoles in between the main pole improves the performance of DC machines ,because

- [A] The interpole produces additional flux to augment the developed torque
- [B] The flux waveform is improved with reduction in harmonics
- [C] The inequality of air flux on the top and bottom halves of armature is removed
- [D] A counter e.m.f. is induced in the coil undergoing commutation

**Answer: D**

5. In DC generators, armature reaction is produced actually by

- [A] Its field current
- [B] Load current in armature
- [C] Field pole winding
- [D] Armature conductors

**Answer: B**

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6. The “Superposition theorem” is essentially based on the concept of

- [A] Linearity
- [B] Duality
- [C] Reciprocity
- [D] Non-linearity

**Answer: A**

7. A passive network is one which contains ..... in it.

- [A] Current Source
- [B] Power Source
- [C] Voltage Source
- [D] Resistance

**Answer: D**

8. Graphite is used in nuclear power plant as a:

- [A] Fuel
- [B] Coolant
- [C] Moderator
- [D] Electrode

**Answer: C**

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9. When the voltage across a capacitor increases, what happens to the charge stored in it?

- [A] Increases
- [B] Decreases
- [C] Becomes zero
- [D] Cannot be determined

**Answer: A**

10. If either the inductance or the rate of change of current is doubled, the induced e.m.f?

- [A] Remains constant
- [B] Becomes zero
- [C] Doubles
- [D] Becomes half

**Answer: C**

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