

## QUIZ – ANSWER KEY

**QUIZ NO: 77**

**TOPIC: ELECTRICAL ENGINEERING**

**DATE: 24/05/2022**

1. The size of the synchronous motor decrease with the increase in:-

- [A] Speed
- [B] Flux density
- [C] Horsepower rating
- [D] All of these

**Answer: B**

2. Which among the following is termed as the drift velocity of the charge carrier per unit electric field?

- [A] Resistivity
- [B] Current density
- [C] Mobility
- [D] Relative permittivity

**Answer: C**

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3. Water is decomposed into hydrogen and oxygen by means of an electric current by the method of

- [A] Electrolysis
- [B] Electric Heating
- [C] Electroplating
- [D] None of these

**Answer: A**

4. What is the phase difference (in Degree) of input and output voltages of a transistor in a common emitter arrangement?

- [A] 45
- [B] 60
- [C] 90
- [D] 180

**Answer: D**

5. If in a synchronous motor, driving mechanical load and drawing current at lagging power from the constant voltage supply, its field excitation is increased up to normal excitation, then its power factor

- [A] Become More
- [B] Become Less
- [C] Remain constant
- [D] All of these

**Answer: A**

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6. In an amplifier with the negative feedback, bandwidth is \_\_\_\_\_ and voltage gain is ?
- [A] Bandwidth is decreased by factor  $(1 + A\beta)$  and voltage gain decrease
  - [B] Bandwidth is decreased by factor  $\beta$  and voltage gain remain same
  - [C] Bandwidth is increased by the factor  $(1 + A\beta)$  and voltage gain is reduced
  - [D] Bandwidth remains the same and voltage gain increases

**Answer: C**

7. What is the reserve capacity, if the maximum demand of generation of power is 50 MW, load factor of 60% and a plant capacity factor of 50%?
- [A] 50 MW
  - [B] 10 MW
  - [C] 20 MW
  - [D] 30 MW

**Answer: B**

8. What the damper bars develop, when the rotor speed, in a synchronous machine, becomes more than the synchronous speed during hunting?
- [A] Inductor motor torque
  - [B] Induction generator torque
  - [C] D.C motor torque
  - [D] Synchronous motor torque

**Answer: B**

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9. Squirrel cage induction motor sometimes exhibits a tendency to run stably at speeds as low as  $\frac{1}{7}$ th of their synchronous speed. This phenomenon is known as ..... of an induction motor.

- [A] Cogging
- [B] Crawling
- [C] Single phasing
- [D] None of the above

**Answer: B**

10. The sum of current entering a junction is 9A. If the current leaves the junction from 3 different paths having the same resistance the current leaving from any one of the paths will be?

- [A] 3 A
- [B] 1 A
- [C] 9 A
- [D] It cannot be determined

**Answer: A**

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