

QUIZ – ANSWER KEY

QUIZ NO: 112

TOPIC: ELECTRICAL ENGINEERING

DATE: 07/10/2022

1. The starting resistance of a DC shunt motor is generally _____ ?

- [A] Low
- [B] Around 0.5 k Ω
- [C] Around 5 k Ω
- [D] Infinitely large

Answer: A

2. The no-volt trip coil (NV) is connected in _____ with the field winding and armature of the motor?

- [A] Series
- [B] Parallel
- [C] Series Parallel
- [D] Any of the above

Answer: A

3. Four-point starter is used when _____ ?

- [A] Motor field current is varied in a narrow range

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- [B] Motor speed is varied in small range
- [C] Motor field current is varied over wide range
- [D] Can be used anywhere

Answer: C

4. γ is given as 1.585. Resistance at maximum allowable current is given equal to 4Ω , what is the 5th step resistance?

- [A] 0.235
- [B] 0.370
- [C] 1.476
- [D] 2

Answer: A

5. Which of the following are the disadvantages of a three-point starter?

- [A] Field Current Become weak
- [B] Disconnect the motor from the supply
- [C] The flow of current through the shunt field is decreased
- [D] All of the above

Answer: D

6. What will happen if DC motor is used without starter?

- [A] Heavy sparking at brushes
- [B] It'll start smoothly
- [C] Will not start at all
- [D] Depends on load

Answer: A

7. The coils of DC motor starter are wound with wire of _____ ?

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- [A] Copper
- [B] Kanthal
- [C] Manganin
- [D] Nichrome

Answer: C

8. In shunt and compound motor starting the shunt field should be made on with full starting resistance in _____ ?
- [A] Series with field
 - [B] Parallel with field
 - [C] Series with armature
 - [D] Parallel with armature

Answer: C

9. Which of the following types of starters are used in DC shunt motors?
- [A] Two-point starters
 - [B] Five-point starters
 - [C] Pointless starters
 - [D] Four-point starters

Answer: D

10. A starter is required for a 220-V shunt motor. The maximum allowable current is 55 A and the minimum current is about 35 A. The armature resistance of the motor is 0.4 Ω . What will be the number of sections of starter resistance required?

- [A] 5
- [B] 4
- [C] 6
- [D] 8

Answer: C

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