

Quiz 7 DC Machines (1)

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TC

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Quiz on DC Machines(1)

6. DC Machine is Similar to Transformer but in Rotating Electrical Machine * 1 point

Mark only one oval.

- Energy Transfers from Electrical domain to Electrical Domain
- Electrical to mechanical domain through magnetic domain or vice versa
- Mechanical to mechanical domain
- Electrical to magnetis domain

7. For a DC Generator the true statement is * 1 point

Mark only one oval.

- DC Voltage is induced within the machine and is collected at the Slip Rings
- Ac Voltage is induced within the machine and is collected at the Slip Rings through Carbon Brushes as AC
- Ac Voltage is induced within the machine and is collected at the Commutator through Carbon Brushes as DC
- None of the above is true

8. The two basic principles for electrical machine are * 1 point

Mark only one oval.

- Faraday's Laws of Electromagnetic induction ($F=Bil$) and Lorentz Force ($e=Blv$)
- Faraday's Laws of Electromagnetic induction ($e=Bil$) and Lorentz Force ($F=Blv$)
- Faraday's Laws of Electromagnetic induction ($F=Blv$) and Lorentz Force ($e=Bil$)
- Faraday's Laws of Electromagnetic induction ($e=Biv$) and Lorentz Force ($F=Bil$)

9. In a DC Motor with the use of split rings *

1 point

Mark only one oval.

- A constant DC voltage is collected at the brushes
- A Unidirectional pulsating voltage is collected at the brushes
- A constant amplitude current will flow if brush terminal are connected to the load
- the flux density wave may be made sinusoidal

10. DC machine has a distinct part that differentiate it from other electrical Machine. The part is *

1 point

Mark only one oval.

- Rotor
- Stator
- Slip rings and carbon brush set
- Split ring or commutator and brush set

11. The wrong statement about Commutator in a DC machine is *

1 point

Mark only one oval.

- It is also known as Rotating Amplifier
- It Coverts AC generated in armature windings to DC at brushes
- it Converts input DC supply to ac into DC Motor
- It induces voltage in its segments and converts into DC at brush terminals

12. If the number of field coils are increased in an electrical machine * 1 point

Mark only one oval.

- the flux density wave tends to become more Rectangular
- the flux density wave tends to become more Flattened
- the flux density wave tends to become more Sinusoidal
- the flux density wave is unaffected and remains constant

13. Find the incorrect statement for an elementary generator * 1 point

Mark only one oval.

- ac is available at brush terminals if slip rings are used.
- dc is available at brush terminals if split rings are used.
- Armature coils are housed in slots of stator and commutator is mounted on shaft
- Two poles are used in field and one coil is used as armature

14. In a two pole machine one full cycle of sinusoidal voltage wave is induced when * 1 point

Mark only one oval.

- Coil rotates full 180 degrees
- Coil rotates by 90 degrees
- Coil rotates by 360 degrees
- Coil rotates at synchronous speed

15. find the incorrect statement "In a DC Machine field coils " *

1 point

Mark only one oval.

- are used to magnetize electromagnets
- are used To create field in the air gap and iron core of stator and rotor
- are used to supply power to the motor
- are wond either around salient poles or along the periphery in case of cylindrical structure.

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