Quiz 9 on DC Machines (3)

Personal Details
*Required

1. Email address *

    _____

2. Name *

    _____

3. Branch *

    Mark only one oval.

    ( ) TC

    ( ) MMFT

4. Roll Number *

    _____

5. Phone no *

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Quiz Multiple Choice Questions.

> Only one choice is correct. Select the correct choice

6. The DC machine may broadly be classified as Self excited machines and   1 point
    _____ Machines *

    Mark only one oval.

    ◯ Shunt Excited

    ◯ Series Excited

    ◯ Separately Excited

    ◯ Compound

7. In shunt excited 10 hp dc motor if the applied armature terminal Voltage is 220   1 point
    volt and field current is 5 Amp, The field resistance will be _____ohm. *

    Mark only one oval.

    ◯ 22

    ◯ 44

    ◯ 66

    ◯ none of the aabove

8. A series excited dc machine will have _____ number of turns of _____   1 point
    wire in field winding *

    Mark only one oval.

    ◯ Large, thin

    ◯ large, thick

    ◯ few, thick

    ◯ few, thin

9. A shunt excited DC machine will have _____ turns of _____ wire in   1 point
   its field winding and thus have _____ resistance. *

   Mark only one oval.

      ◯ Large, thin, high

      ◯ large, thick, high

      ◯ few, thick, high

      ◯ few, thin, low

10. A long shunt compound dc machine may be of two types as *   1 point

    Mark only one oval.

       ◯ Cumulatively Compounded and Deferentially Compounded

       ◯ Long Shunt and Short Shunt compounded

       ◯ Long shunt machine does not have two types

       ◯ Self excited and Separately Excited

11. The incorrect statement is *   1 point

    Mark only one oval.

       ◯ Shunt excited DC machine has a high resistance field winding

       ◯ Series excited machine has a low resistance field winding

       ◯ A Dc machine always has high resistance for shunt field winding and low resistance
    for series field winding

       ◯ A separately excited DC machine may have either high field resistance or low field
    resistance

12. The incorrect statement is *   1 point

Mark only one oval.

◯ In series field generator armature current will be sum of Field current and Load current.

◯ In series field Motor the load current is equal to the field current.

◯ In series field motor the load current is equal to the armature current.

◯ In series field generator, the generator does not give output terminal voltage if there is no load connected to it.

13. The incorrect statement about dc shunt machine is *   1 point

Mark only one oval.

◯ In shunt generator armature current will be sum of Field current and Load current.

◯ In shunt Motor the load current is equal to the sum of field current.and armature

◯ In shunt motor the load current is equal to the armature current.

◯ In shunt field generator, if load is not connected then armature current is equal to field current..

14. The incorrect statement is *   1 point

Mark only one oval.

◯ In dc shunt generator, generated voltage Eg will be equal to the sum of armature voltage drop (Ia.Ra) and terminal voltage Vt

◯ In dc shunt Motor the back emf Eb is obtained by subtracting Armature voltage drop (Ia.Ra) from Applied Terminal,Voltage Vt

◯ In dc shunt generator, generated voltage Eg will be obtained by subtracting Armature voltage drop (Ia.Ra) from Terminal,Voltage Vt

◯ In dc shunt Motor the terminal voltage applied Vt is equal to the sum of back EMF Eg and Armature voltage drop (Ia.Ra)

15.   The incorrect statement is *   1 point

Mark only one oval.

◯ In long shunt compound dc motor the load current is equal to the sum of armature current and shunt field current.

◯ In long shunt compound dc motor the load current is equal to the sum of series field current and shunt field current

◯ In short shunt compound dc motor the load current is equal to the sum of series field current and shunt field current

◯ In short shunt compound dc motor the series field current is equal to the sum of armature current and shunt field current

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