

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Quiz 4 Sec.: I.D.: Ser#: Name:

Circle the correct answer.

1) The series field winding of a long-shunt cumulatively compounded DC generator is excited by its armature current. (2 Marks)

a. True.

b. False.

2) The terminal voltage of a series DC generator can be controlled as follows: (2 Marks)

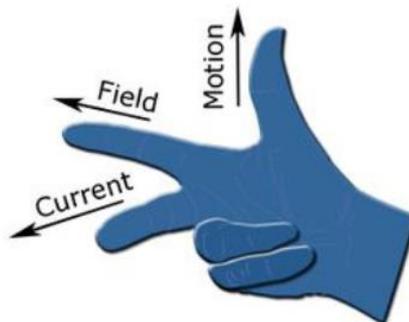
a. $n \uparrow \Rightarrow E_A \uparrow \Rightarrow V_T \uparrow$

b. $R_F \downarrow \Rightarrow I_F \uparrow \Rightarrow E_A \downarrow \Rightarrow V_T \uparrow$

c. $R_F \uparrow \Rightarrow I_F \downarrow \Rightarrow E_A \downarrow \Rightarrow V_T \downarrow$

d. None of above

3) Place the proper action beside each arrow in Fleming's right-hand rule. (3 Marks)



Flux-density; Current-flow; Velocity.

4) Draw the load-characteristic of differential compounded DC motors. (3 Marks)

