

**KING FAHD UNIVERSITY OF PETROLEUM & MINERALS**  
**ELECTRICAL ENGINEERING DEPARTMENT**  
**Dr. Ibrahim O. Habiballah**  
**EE-360**

**Key Solutions**

Quiz # 3      Serial #

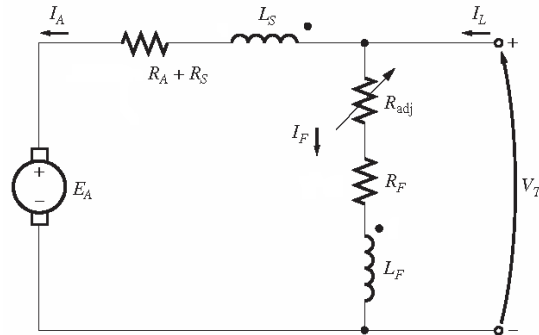
Name:

I.D.#

Circle the correct answer.

1) The equivalent circuit shown below is for

(3 Marks)



**a. a long-shunt cumulative compound dc motor.**

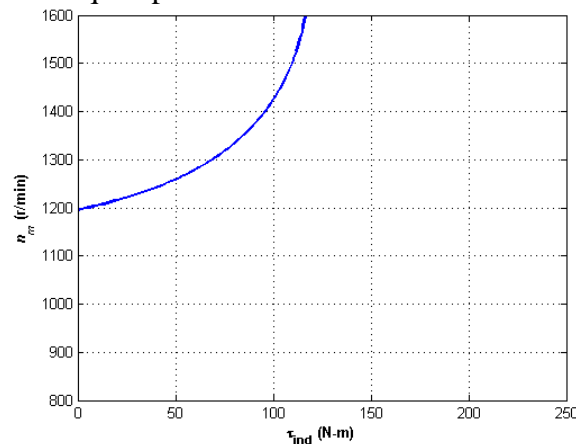
b. a short-shunt cumulative compound dc motor.

c. a long-shunt differential compound dc motor.

d. None of above.

2) The figure shown below is the torque-speed characteristic for

(3 Marks)



a. a series dc motor.

b. a shunt dc motor.

**c. a long-shunt differential compound dc motor.**

d. None of above.

5) The terminal voltage of a series DC generator can be controlled as follows:

(4 Marks)

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

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

c.  $R_S \downarrow \Rightarrow I_S \uparrow \Rightarrow E_A \uparrow \Rightarrow V_T \uparrow$

**d. None of above**