

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
Dr. Ibrahim O. Habiballah
EE-360 (151)

Key Solutions

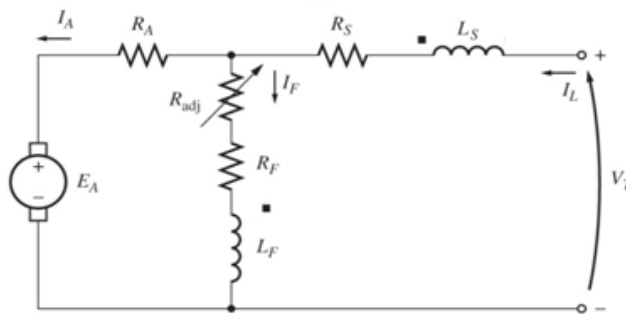
Quiz # 3 Sec. Serial # Name: I.D.#

Circle the correct answer.

- 1) The number of current paths in lap winding DC machine depends on (3 Marks)
 a- multiplexity of the field windings and number of poles in the rotor .
 b- multiplexity of the armature windings and number of poles in the rotor.
 c- multiplexity of the field windings and number of poles in the stator.
d- multiplexity of the armature windings and number of poles in the stator.

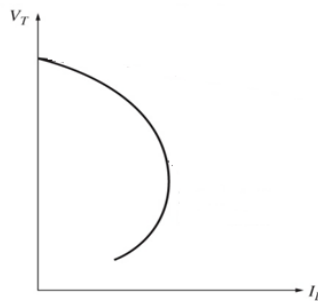
- 2) The terminal voltage of a shun DC generator can be controlled as follows: (2 Marks)
 a- $n \uparrow \Rightarrow E_A \downarrow \Rightarrow V_T \uparrow$
 b- $R_F \downarrow \Rightarrow I_F \downarrow \Rightarrow E_A \uparrow \Rightarrow V_T \uparrow$
 c- $R_F \uparrow \Rightarrow I_F \uparrow \Rightarrow E_A \downarrow \Rightarrow V_T \downarrow$
d- None of above

- 3) The equivalent circuit below is for (3 Marks)



- a- short-shunt cumulatively compounded DC motors.
b- short-shunt differentially compounded DC motors.
 c- long-shunt cumulatively compounded DC motors.
 d- long-shunt differentially compounded DC motors.

- 4) The load charateristic shown below is for (2 Marks)



- a- series DC generator.
 b- series DC motor.
c- long-shunt differential compound DC generator.
 d- long-shunt differential compound DC motor.