

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
Dr. Ibrahim O. Habiballah
EE-306 (Sec.2)

Key Solutions

Quiz # 4 Serial #

Name:

I.D.#

Circle the correct answer.

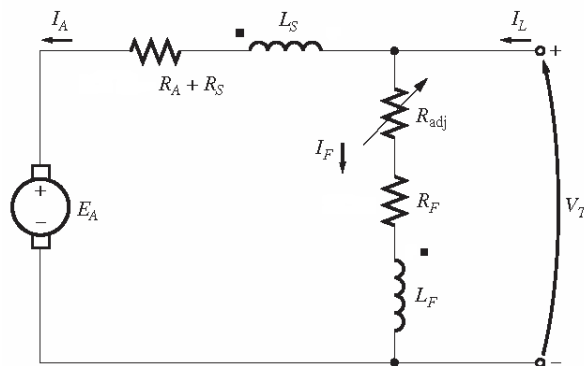
1) The series field winding of a short-shunt cumulatively compounded DC generator is excited by its (.....) current. (3 Marks)

- a- load**
- b- shunt field
- c- armature
- d- external

2) The terminal voltage of a shun DC generator can be controlled as follows: (4 Marks)

- a- $n \uparrow \Rightarrow E_A \downarrow \Rightarrow V_T \uparrow$
- b- $R_F \downarrow \Rightarrow I_F \uparrow \Rightarrow E_A \downarrow \Rightarrow V_T \uparrow$
- c- $R_F \uparrow \Rightarrow I_F \downarrow \Rightarrow E_A \downarrow \Rightarrow V_T \downarrow$**
- d- None of above

2) 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. a short-shunt differential compound dc motor.