## KING FAHD UNIVERSITY OF PETROLEUM & MINERALS ELECTRICAL ENGINEERING DEPARTMENT Dr. Ibrahim O. Habiballah

## EE-360 (152)

## **Key Solutions**

	Quize # 3	Sec.	Serial #	Name:	I.D.#
e correct answer.					

1) Wave winding DC machines are suitable for (.....) voltage, (.....) current applications. (2 Marks)

a- higher, lower

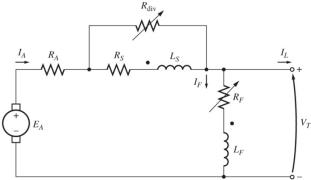
**Circle the** 

- b-lower,lower
- c-lower,higher
- d- higher, higher

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-  $R_F \downarrow \Rightarrow I_F \uparrow \Rightarrow E_A \uparrow \Rightarrow V_T \uparrow$ 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 generators.

- b- short-shunt differentaily compounded DC generators.
- c- long-shunt cumulatively compounded DC generators.
- d- long-shunt differentaily compounded DC generators.

4) The series field of a short-shunt compounded DC machine is excited by (.....) current. (3 Marks)

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