

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT

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EE 360

Key Solution

Quiz # 6 Serial # Name: I.D.#

1) If the armature current of a compound DC motor is reversed

a- the cumulative compound DC motor becomes differential compound DC motor.

b- the cumulative compound DC motor becomes differential compound DC generator.

c- the cumulative compound DC motor becomes shunt DC motor

d- it can not be reversed.

2) A 25 hp, 240 V DC shunt motor has an armature resistance of 0.2 ohm and a field resistance of 120 ohm. The brush voltage drop is 4 V. At no-load, the motor draws 14 A and has a speed of 1700 rpm. At full load, the motor draws 82 A. The speed regulation is

a- 5.82 %

b- 2.77 %

c- 5.88 %

d- 6.18 %