

# KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

## ELECTRICAL ENGINEERING DEPARTMENT

Dr. Ibrahim O. Habiballah

EE-306

### Key Solution

Quiz 4      Sec.: 6      I.D.:      Ser#:      Name:

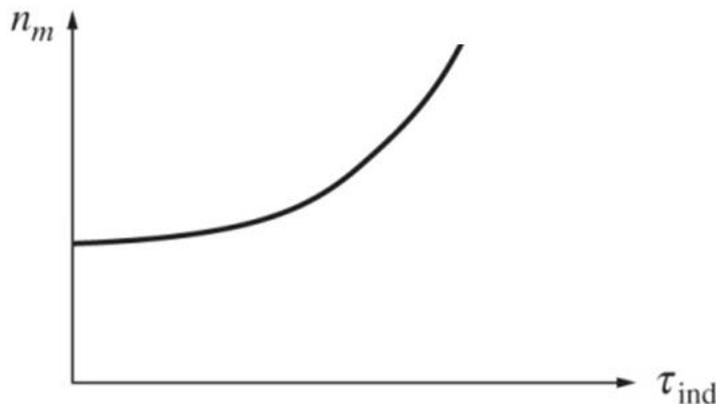
Q.1 At no-load, the excited voltage of a shunt self-excited DC generator is same as the terminal voltage. (2 Marks)

True    **False**

Q.2 The converted (developed) power in DC generators is higher than the electrical output power, and in DC motors is less than the electrical input power. (2 Marks)

**True**    False

Q.3 The machine characteristic shown below is for (2 Marks)



- a. a cumulative compound DC generator.
- b. a cumulative compound DC motor.
- c. a differential compound DC generator.
- d. a differential compound DC motor.**

Q.4 The voltage across the brushes in DC machines are additional voltage drop in generators, however, they are additional voltage buildup in motors. (2 Marks)

True    **False**

Q.5 Theoretically, a long-shunt cumulative compound DC generator can be operated as long-shunt differential compound DC motors. (2 Marks)

**True**    False