

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

**Key Solutions**

Quiz # 5      Serial #                      Name:                                      I.D.#

Circle the correct answer.

1) The voltage regulation of a synchronous generator having 0.8 lagging power factor load, no-load induced EMF of 3000 V, and rated terminal voltage of 2400 V is (5 Marks)

- a. - 25 %
- b. + 25 %**
- c. - 20 %
- d. + 20 %

2) The V-curves of a synchronous motor shows relation between (5 Marks)

- a. excitation current and back EMF (i.e., induced voltage).
- b. armature current and field current.**
- c. induced voltage and armature current.
- d. load current and terminal voltage.