KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

Dr. Ibrahim O. Habiballah

EE-360

Key Solutions

Quize # 4 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 (4 Marks)

a. – 25 %

b. + 25 %

c. – 20 %

d. + 20 %

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

a. excitation current and back EMF.

b. armature current and field current.

c. induced voltage and armature current.

d. load current and terminal voltage.

3) Two synchronous generators are to run in parallel. The first one has six-poles and runs at a speed of 1000 rpm. If the second one has four-poles, the speed at which it should run is (4 Marks)

a. 1800 rpm.

b. 1500 rpm.

c. 1200 rpm.

d. 900 rpm.