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

EE-360 Key Solutions

Name:

I.D.#

Circle the correct answer.

Serial #

Quize #4

1) Two synchronous generators are to run in parallel. The first one has four-poles and runs at a speed of 1500 rpm. If the second one has six-poles, the speed at which it should run is

- a. 900 rpm.
- b. 1000 rpm.
- c. 1200 rpm.
- d. 1500 rpm.

2) The phasor diagram shown below is for

a. an over-excited synchronous generator.

b. an over-excited synchronous motor.

b. an over-excited synchronous motor

- c. an under-excited synchronous generator.
- d. an under-excited synchronous motor.

(2 Marks)

3) The V-curves of a synchronous motor shows relation between

- a. excitation current and back EMF.
- b. armature current and supply voltage.

c. armature current and excitation current.

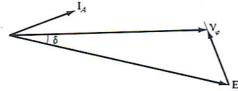
d. load current and terminal voltage.

(2 Marks)

- 4) The synchronous machine's parameter with negliable armature resistance can be found from a. The DC test only.
 - b. The Open Circuit Characteristic and DC tests.
 - c. The Short Circuit Characteristic and DC tests.

d. The Open Circuit Characteristic and Short Circuit Characteristic tests.

(2 Marks)



(4 Marks)