

# KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

## ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

### Key Solution

Quiz 5      Sec.: 6      I.D.:      Ser#:      Name:

Q.1 Synchronous generators are overexcited when connected to inductive loads. (2-points)

- a. TRUE.
- b. FALSE.

Q.2 None-salient (round) rotor's synchronous machines are used for low-speed applications. (2-points)

- a. TRUE.
- b. FALSE.

Q.3 Irrespective of the load type, voltage regulation of synchronous generators is always zero because they run at constant speed. (2-points)

- a. TRUE.
- b. FALSE.

Q.4 Two 50-Hz, synchronous motors are to run in parallel. The first one has 2-poles and runs at a speed of 3000 rpm. If the second one has four-poles, the speed at which it should run is (4-points)

- a. 3000 rpm.
- b. 1500 rpm.
- c. 1000 rpm.
- d. 900 rpm.