

# KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

## ELECTRICAL ENGINEERING DEPARTMENT

Dr. Ibrahim O. Habiballah

EE-306

### Key Solution

Quiz 6      Sec.: 7      I.D.:      Ser#:      Name:

Circle the correct answer.

- 1) The speed in polyphase induction machines can be controlled if (-----) is used (2 Marks)
- a. squirrel-cage rotor.
  - b. wound rotor.
  - c. round rotor.
  - d. salient rotor.
- 2) Breakdown torque is the maximum torque in polyphase induction generator (2 Marks)
- a. TRUE
  - b. FALSE
- 3) The full load torque of three-phase induction motors occurs when the speed is (2 Marks)
- a. supersynchronous.
  - b. synchronous.
  - c. asynchronous.
- 4) ) A 4-pole, 60-Hz, polyphase induction motor has a full-load speed of 1740 rpm. The speed of the stator rotating magnetic field  $B_s$  relative to the rotor speed is (4 Marks)
- a. 1800 rpm
  - b. 1740 rpm
  - c. 60 rpm
  - d. 0 rpm