

# KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

## ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

### Key Solution

Quiz 6      Sec.: 4      I.D.:      Ser#:      Name:

Circle the correct answer.

- 1) The rotor types in polyphase induction machines are (2 Marks)  
a. squirrel-cage and wound rotors.  
b. squirrel-cage and round rotors.  
c. salient and round rotors.  
d. wound and round rotors.
- 2) Pushover 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 slip is (2 Marks)  
a. close to zero.  
b. zero.  
c. less than zero.
- 4) ) A 4-pole, 50-Hz, polyphase induction motor has a full-load speed of 1440 rpm. The speed of the stator rotating magnetic field  $B_s$  relative to the rotor speed is (4 Marks)  
a. 1500 rpm  
b. 1440 rpm  
c. 60 rpm  
d. 0 rpm