KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Ser#:

Name:

Quiz 6 Sec.: 3 I.D.:

Circle the correct answer.	
1) The rotor speed of three-phase induction machines operating at full-load is always than the synchronous speed. (2 Ma a. TRUE b. FALSE	
2) The breakdown torque in polyphaser induction motor take place when the rotorevolving in the opposite direction of its synchronous speed. a. TRUE b. FALSE	
3) The air-gap power can be obtained from the power flow diagram as a. $P_{AG} = P_{in} + P_{SCL} + P_{core}$. b. $P_{AG} = P_{in} - P_{SCL} - P_{core}$. c. $P_{AG} = P_{conv} + P_{SCL} + P_{core}$. d. $P_{AG} = P_{conv} + P_{SCL}$.	rks)
4)) A 4-pole, 50-Hz, polyphase induction motor has a full-load speed of 1440 rpm. speed of the stator rotating magnetic field B_S (4 Maga. 1500 rpm b. 1440 rpm c. 60 rpm d. 0 rpm	