KING FAHD UNIVERSITY OF PETROLEUM & MINERALS ELECTRICAL ENGINEERING DEPARTMENT Dr. Ibrahim O. Habiballah EE-306 (Sec. 3)

Key Solution

Quize # 6	Serial #	Name:	I.D.#		
Circle the co	rrect answer.				
1) A 6-pole, 60-Hz, 3-phase, induction motor has a full-load speed of 1140 rpm. The speed of the stator					
rotating mag	netic field B_S	with respect to the rotor is	(5 Marks)		
a-1200 rpm	n				
b-1140 rpn	n				
c- 60 r]	pm				

d-0 rpm

2) The starting to pullout torque of a polyphase induction motor occures when the slip is (.....) and the pushover torque of a polyphase induction generator occurs when the slip is (.....). (5 Marks)

a. 1.0 > s > 0.0 s < 0.0

b.	s = 1.0	s = 0.0
c.	s > 1.0	s < 0.0
d.	1.0 > s > 0.0	s > 1.0