KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Quiz 6	Sec.:	8	I.D.:	Ser#:	Name:	
Q.1 A 4-pole, 50-Hz polyphaser induction motor has a full-load rotor speed 1440 rpm. It's shaft torque when running at 1485 rpm is 100-N.m. Its full-load shaft torque is a. 400-N.m. b. 104.2-N.m. c. 103.1-N.m. d. 101-N.m.						
a.TRUE.	and fiel	d windings	in induction mach	ines are 3-p	hase AC windings.	(2-points)
b. FALSE.						
Q.3 A three-phase, 50-Hz induction motor has a full-load speed of 950 rpm. The number of poles of						
the motor is:						(2-points)
a. 2-pole						
b. 4-pole						
c. 6-pole						
d. 8-pole						
a. $s > 1.0$ b. $s = 1.0$ c. $s < 1.0$	ver tor	que of a 3-p	bhase induction ma	chine occurs	s when the slip is	(2-points)
d. $s < 0.0$						