KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Qui	z 5	Sec.: 6	I.D.:	Ser#:	Name:		
Q.1 A synchronous generator running at leading power-factor load is underexcited.							
						☐ True	□ False
Q.2 A synchronous motor, with negligible armature resistance, running at laggin factor load will have negative speed regulation.							
						☐ True	☐ False
Q.3 The synchronous reactance is the vector summation of the leakage reactance and the reactance due to armature-reaction .							
						☐ True	□ False
Q.4	A synchroi	nous motor can a	absorb reactive pow	ver if the fie	ld current is i		☐ False
 Q.5 Two synchronous machines are to run in parallel. The first one has 6-poles and runs at a speed of 1200 rpm. If the second one has 8-poles, its speed should run at a. 1200 rpm. b. 1000 rpm. 							
c. d.	900 rpm 750 rpm.	l•					