KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Quiz 5	Sec.: 3	I.D.:	Ser#:	Name:	
Circle the corr	ect answer.				
 Speed regula. 1.1 1.0 0.9 	ation of sync	hronous motors	when absorb uni	ty power factor is.	(2 Marks)
d. 0.0					
a. directly the	input three-pree-phase vol		nes is supplied fr on.	om	(2 Marks)
3) Two synchr	onous genera	tors are to run i	n parallel. The fi	rst one has six-poles	and runs at a
speed of 1000 a. 3600 rpm. b. 3000 rpm. c. 1200 rpm. d. 900 rpm.		econd one has tw	vo-poles, its spee	d should be	(3 Marks)
4) The convert a. $\frac{3 V_t E_A }{X_S}cos$		synchronous ma	chines when neg	lecting the armature	resistance is (3 Marks)
b. $\frac{3 V_t E_A }{X_S}sinc$ c. $3 E_A I_A si$ d. $3 E_A I_A c$	$\delta n(\gamma)$.				