KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

Dr. Ibrahim O. Habiballah

EE-360

Key SolutionName:

I.D.#

Serial #

Quize # 5 Sec:

Circle the correct answer.	
1) The speed at pullout torque of a polyphase IM occures is () the speed at full load.	(2 Marks)
a. larger than	
b. smaller than	
c. same as	
d. oppsite of	
2) The breakdown torque of a 3-phase, induction motor is factor of the following:	(2 Marks)
a. rotor resistance.	
b. supply frequency.	
c. all above.	
d. none of above.	
	(2) (1)
3) The rotor frequency of a 60-Hz, 3-phase, induction motor with slip of 5% is:	(2 Marks)
a. 60 Hz	
b. 30 Hz	
c. 12 Hz	
d. 3 Hz	
4) When the applied rated voltage per phase is reduced by 50 %,	(2 Marks)
a. the starting torque will be reduced by 25 %.	,
b. the maximum torque will be reduced by 25 %.	
c. all above.	
d. None of above	
5) When the air-gap power and slip of a polyphase IM are known,	(2 Marks)
a. the inpu and outpout powers can be calculated.	(2 1.10110)
b. the stator and rotor copper losses can be calculated.	
c. the converted power and rotor copper loss can be calculated.	
d. None of above	