

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
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EE-360

Key Solutions

Quiz # 5

Serial #

Name:

I.D.#

Circle the correct answer.

1) A 6-pole, 60-Hz, 3-phase, induction motor has a full-load speed of 1140 rpm. At pull-out torque, its speed would be (4 Marks)

a- 1200 rpm

b- 1160 rpm

c- 1000 rpm

d- 0 rpm

2) A three-phase, 50-Hz, induction motor has a full-load speed of 1450 rpm. The number of poles and the slip of the motor are (4 Marks)

a. 4-pole; 0.033

b. 4-pole; 0.194

c. 6-pole; 0.033

d. 6-pole; 0.91

3) The pullout torque of a polyphase IM occurs when the slip is (.....) and the pushover torque occurs when the slip is (.....) (2 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. $1.0 > s > 0.0$ $s > 1.0$