

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
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EE-306 (Sec. 1)

Key Solution

Quiz # 6 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. The speed of the stator rotating magnetic field B_s with respect to the stator is (5 Marks)

a- 1200 rpm

b- 1140 rpm

c- 100 rpm

d- 0 rpm

2) The pullout torque of a polyphase induction motor occurs when the slip is (.....) and the pushover torque of a polyphase induction generator occurs when the slip is (.....). (5 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. $1.0 > s > 0.0$ $s > 1.0$