

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
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EE-306 (Sec. 2)

Key Solutions

Quiz # 6 Serial #

Name:

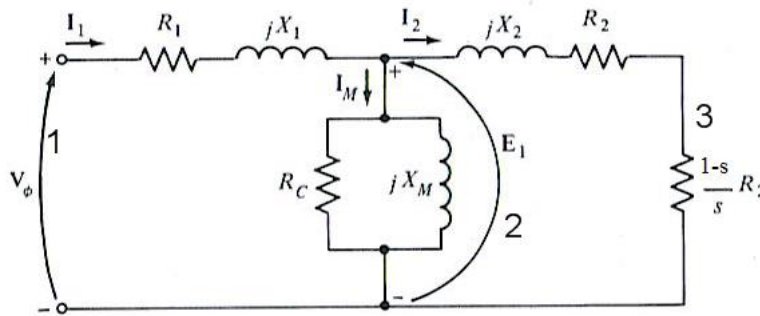
I.D.#

Circle the correct answer.

1) A 6-pole, 60-Hz, 3-phase, induction motor has a full-load speed of 1140 rpm. At pull-out (maximum) torque, its speed would be (5 Marks)

- a- 1200 rpm
- b- 1160 rpm
- c- 1000 rpm**
- d- 0 rpm

2) In the per-phase equivalent circuit of a polyphase induction motor shown below, number "1" is the (....) power, number "2" is the (.....) power, and number "3" is the (.....) power. (5 Marks)



- a) electrical input ; converted ; mechanical output
- b) electrical input; air-gap; mechanical output
- c) electrical input; air-gap; converted**
- d) mechanical input; converted; electrical output