

**KING FAHD UNIVERSITY OF PETROLEUM & MINERALS**  
**ELECTRICAL ENGINEERING DEPARTMENT**

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**EE 360**

**Key Solution**

Quiz # 7

Serial #:

Name:

I.D.#

1) Two synchronous generators are to run in parallel. The first one has two-poles and runs at a synchronous speed of 3000 rpm. If the second one has six-poles, the speed at which it should run is:

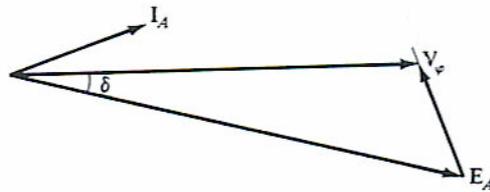
**a. 1000 rpm**

b. 1200 rpm

c. 3600 rpm

d. 3000 rpm

2) The phasor diagram shown below is for



a. an under-excited synchronous generator.

b. an under-excited synchronous motor.

c. an over-excited synchronous generator.

**d. an over-excited synchronous motor.**