

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
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EE-306 (Sec. 4)

Key Solutions

Quiz # 5 Serial #

Name:

I.D.#

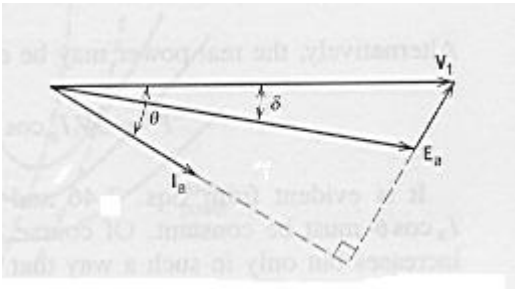
Circle the correct answer.

1) Two synchronous generators are to run in parallel. The first one has six-poles and runs at a speed of 1000 rpm. If the second one has four-poles, the speed at which it should run is (5 Marks)

- a. 1800 rpm.
- b. 1500 rpm.**
- c. 1200 rpm.
- d. 900 rpm.

2) The phasor diagram shown below is for

(5 Marks)



- a. a leading power factor synchronous motor.
- b. a lagging power factor synchronous motor.**
- c. a leading power factor synchronous generator.
- d. a lagging power factor synchronous generator.