# KING FAHD UNIVERSITY OF PETROLEUM \& MINERALS <br> ELECTRICAL ENGINEERING DEPARTMENT <br> Dr. Ibrahim O. Habiballah <br> EE-360 <br> Key Solutions <br> Quize \# 4 Serial \# Name: I.D.\# 

Circle the correct answer.

1) Two synchronous generators are to run in parallel. The first one has four-poles and runs at a speed of 1500 rpm . If the second one has six-poles, the speed at which it should run is
a. 900 rpm .
b. 1000 rpm .
c. 1200 rpm .
d. 1500 rpm .
2) The phasor diagram shown below is for

a. an over-excited synchronous generator.
b. an over-excited synchronous motor.
c. an under-excited synchronous generator.
d. an under-excited synchronous motor.
3) The V-curves of a synchronous motor shows relation between
a. excitation current and back EMF.
b. armature current and supply voltage.
c. armature current and excitation current.
d. load current and terminal voltage.
4) The synchronous machine's parameter with negliable armature resistance can be found from
a. The DC test only.
b. The Open Circuit Characteristic and DC tests.
c. The Short Circuit Characteristic and DC tests.
d. The Open Circuit Characteristic and Short Circuit Characteristic tests.
