KING FAHD UNIVERSITY OF PETROLEUM & MINERALS ELECTRICAL ENGINEERING DEPARTMENT

Dr. Ibrahim O. Habiballah EE-360

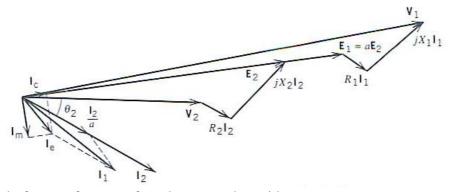
Key Solutions

Quize # 2 Serial # Name: I.D.#

Circle the correct answer.

1) The phasor diagram shown below is for

(5 Marks)



- a. the exact model of a transformer referred to secondary side.
- b. the approximate model of a transformer with the excitation branch referred to secondary side.
- c. the approximate model of a transformer with the excitation branch referred to primary side.

d. none of above.

- 2) A three-phase transformer bank is to be constucted from three identical single-phase transformers. The bank ratings are 500 kVA and 34.5/11-kV voltage ratio. The ratings of each of the three single-phase transformers are dependent on the type of connections of the bank. The ratings for each of the single-phase transformer in the bank for wye-delta connection are (5 Marks)
 - a. 34.5 / 11.0 kV , 167 kVA , Turns Ratio 2.50:1
 - b. 34.5 / 6.35 kV , 167 kVA , Turns Ratio 4.33:1
 - c. 19.9 / 11.0 kV , 167 kVA , Turns Ratio 1.44:1
 - d. 19.9 / 6.35 kV , 167 kVA , Turns Ratio 2.50:1