

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT

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EE-360

Key Solution

Quiz # 3 Serial #

Name:

I.D.#

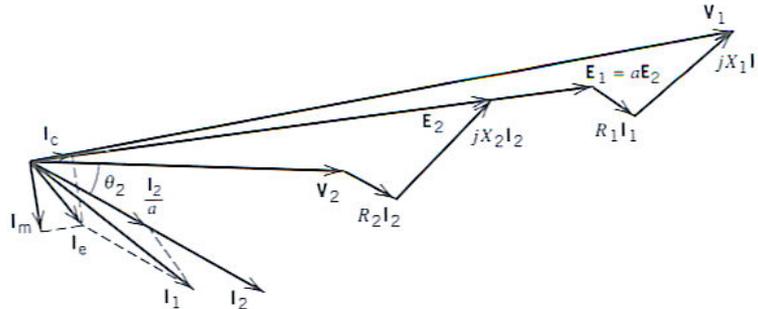
Circle the correct answer.

1) The output current corresponding to maximum efficiency for a transformer having core loss of 1800 W and equivalent resistance of 0.5 Ohm referred to secondary side is:

- a- 3600 A.
- b- 900 A.
- c- 60 A.**
- d- 30 A.

(4 Marks)

2) The phasor diagram shown below is for

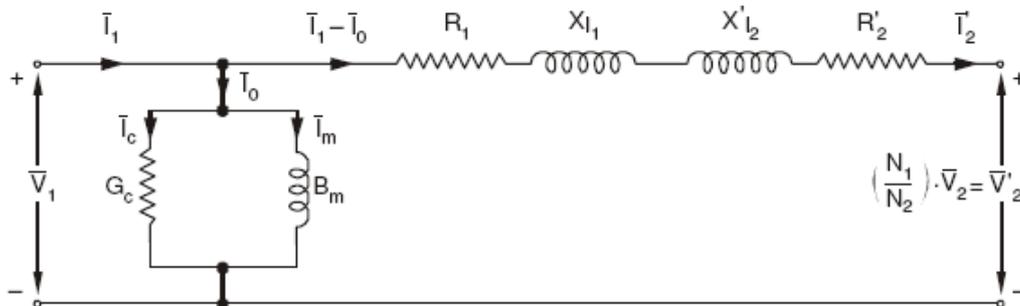


a. the exact model of a transformer.

- 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.

(3 Marks)

3) The equivalent circuit shown below is for



a. the exact model of a transformer.

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.

(3 Marks)