

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Quiz 3 Sec.: 4 I.D.: Ser#: Name:

Circle the best answer

Q.1 In transformers, energy can be transferred from primary-side to secondary-side by induction. (2-points)

- a. True
- b. False

Q.2 The voltage regulation of an ideal transformer connected to a capacitive load has negative percentage. (2-points)

- a. True
- b. False

Q.3 A 50 -kVA, 200/2000-V, single-phase distribution transformer has the following test results: (3-points)

Tests	Voltage (V)	Current (A)	Power (W)
O.C. Test	200 (rated)	5	500
S.C. Test	50	25 (rated)	625

During S.C. test, the measuring instruments are connected to

- a. The high-voltage side of the transformer
- b. The low-voltage side of the transformer

Q.4 A transformer has a copper loss at 50 % of full-load = 250 W. The copper loss at full-load is (3-points)

- a. 125-W
- b. 500-W
- c. 1000-W