

**KING FAHD UNIVERSITY OF PETROLEUM & MINERALS**  
**ELECTRICAL ENGINEERING DEPARTMENT**  
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**EE-360**

**Key Solutions**

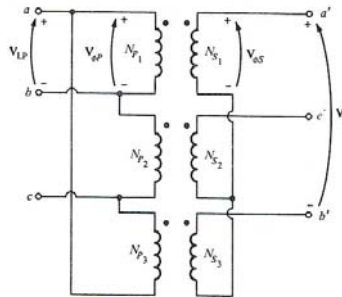
Quiz # 2    Serial #

Name:

I.D.#

Circle the correct answer.

1) A 69 kV (on primary) / 4.16 kV (on secondary), 1000 kVA three-phase transformer is shown below. The rated phase voltage on the primary side is (.....) kV, and the rated phase voltage on the secondary side is (.....) kV



- a- 69 ; 4.16
- b- 69 ; 2.4**
- c- 40 ; 4.16
- d- 40 ; 2.4

(5 Marks)

2) A 5 kVA, 480/120 V conventional transformer is connected as a step-down autotransformer.

The autotransformer ratings are

- a- 25 kVA , 600/120 V    OR    6.25 kVA, 600/480 V
- b- 25 kVA , 480/600 V    OR    6.25 kVA, 120/600 V
- c- 25 kVA , 600/480 V    OR    6.25 kVA, 600/120 V**
- d- 20 kVA , 600/480 V    OR    1.25 kVA, 600/120 V

(5 Marks)