

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
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EE-306

Key solutions

Quiz # 2

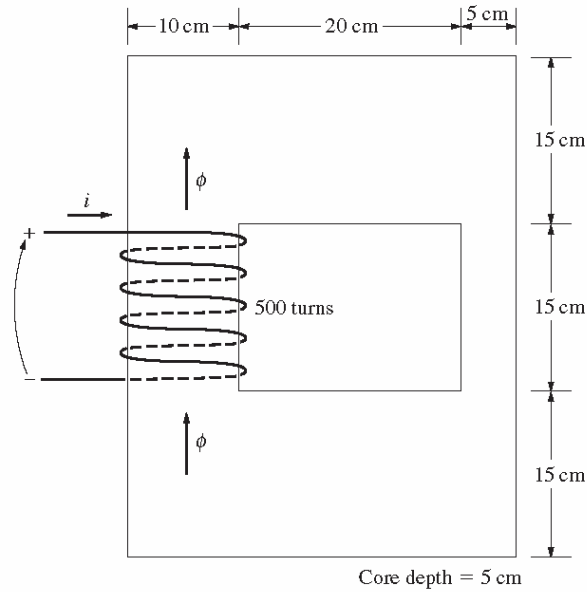
Serial #

Name:

I.D.#

Circle the correct answer.

1) A ferromagnetic core is shown below. The relative permeability of the core is 2500. The value of the magnetic flux flow in the core is 2.5 mWb. (3 Marks)



- a. The magnetic flux on the top leg is same as that of the right leg.
- b. The magnetic flux on the top leg is three times that of the right leg.
- c. The magnetic flux on the top leg is one-third that of the right leg.
- d. None of the above.

2) For the same core shown above,

(3 Marks)

- a. The flux density on the right leg is same as that of the top leg.
- b. The flux density on the right leg is three times that of the top leg.
- c. The flux density on the right leg is one-third that of the top leg.
- d. None of the above.

3) For the same core shown above,

(4 Marks)

- a. The flux intensity on the top leg is same as that of the right leg.
- b. The flux intensity on the top leg is three times that of the right leg.
- c. The flux intensity on the top leg is one-third that of the right leg.
- d. None of the above.