

# KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

## ELECTRICAL ENGINEERING DEPARTMENT

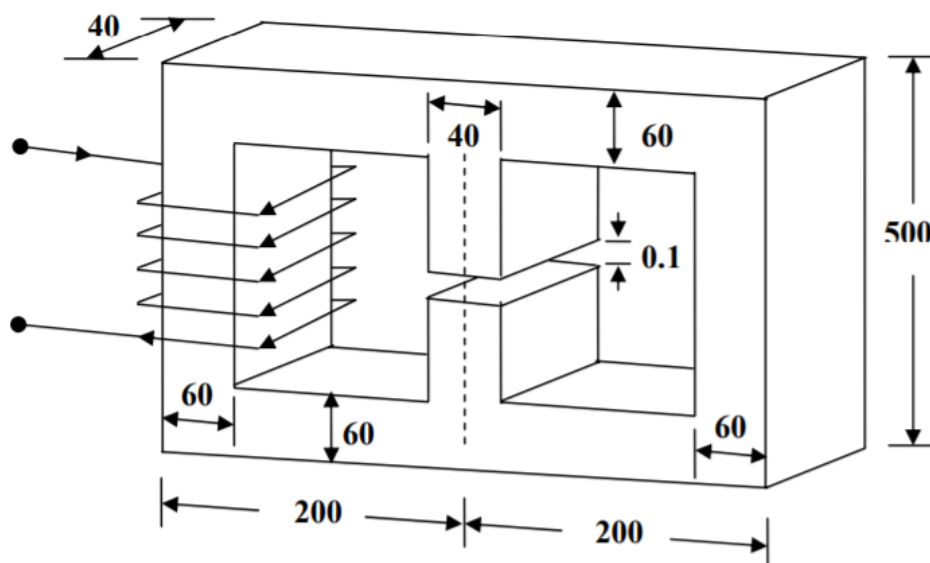
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EE-306

### Key Solution

Quiz 2      Sec.: 4      I.D.:      Ser#:      Name:

Consider the shell core shown below. All dimensions are in millimeters



Q.1 The mean length of the left portion of the core (including top, bottom and left legs) is equal to (4-points)

- a. 900 mm.
- b. 780 mm.
- c. 740 mm.

Q.2 The direction of the flux flowing on the top leg of the left portion of the core is going from left to right. (3-points)

- a. True.
- b. False.

Q.3 Assume fringing effect, the amount of flux passing through the air-gap is larger than the flux flowing in the central leg of the core. (3-points)

- a. True.
- b. False.