

# KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

## ELECTRICAL ENGINEERING DEPARTMENT

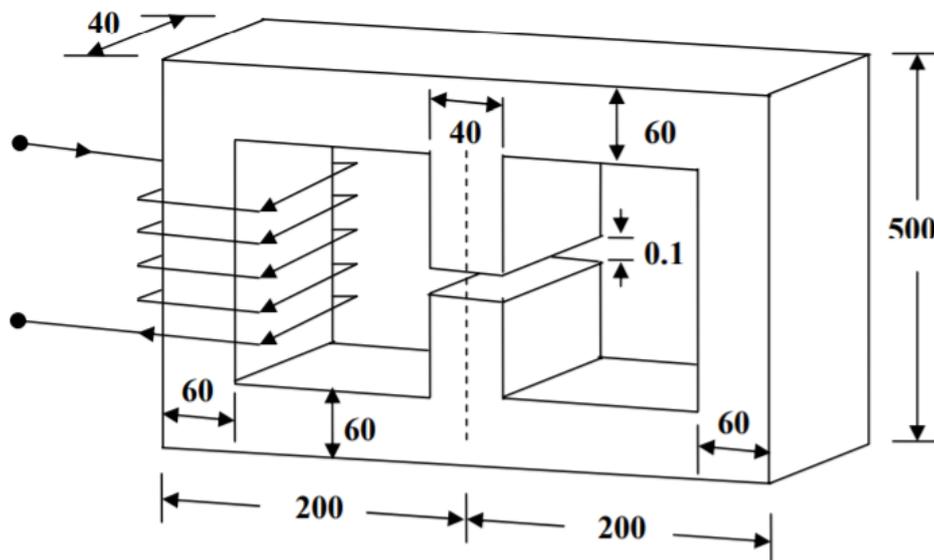
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EE-306

### Key Solution

Quiz 2      Sec.: 3      I.D.:      Ser#:      Name:

Consider the shell core shown below.



Q.1 The flux flowing in the air-gap is flowing from top to bottom. (3-points)

- a. True.
- b. False.

Q.2 The flux flowing on the right leg is larger than that flowing on the central leg. (3-points)

- a. True.
- b. False.

Q.3 Assume fringing effect, the flux density of the air-gap is larger than the flux density of the central leg of the core. (4-points)

- a. True.
- b. False.