KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

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Key Solutions

Name:

I.D.#

Quize # 2 Sec. 1

Serial #

Circle the correct answer.	
 Although most of the flux produced by an excited coil in a ring core remains small amount of the flux that do leave the core and known as The fringing effect. The flux intensity. 	ns inside the core, there are
c. The flux leakege.d. The flux residual.	(5 Marks)
2) A ring core has a cross-sectional area of 8 cm ² and mean length of 40 cm. A	A coil of 350 turns is placed
on its left side. The relative permeability of the core is 5000. If the magnetic fl	ux density in the core is 1.5
T, the flux flowing in the core is	
a. 0.12 mWb (clockwise)	
b. 0.12 mWb (counterclockwise)	
c. 1.2 mWb	
d. 8333 Wb	(5 Marks)