

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Quiz # 6 Sec.: 2 I.D.# Name:

Circle the correct answer.

The figures below show one phase of a 2-pole ployphase induction motor where the winding in Fig. 2-a is a (....) winding and has been connected, as shown in Fig. 2-b, as a (....) winding in order to (....) the speed of the rotor.

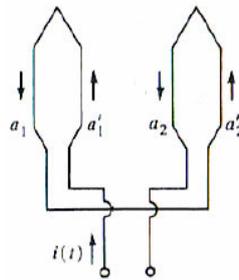


Figure 2-a

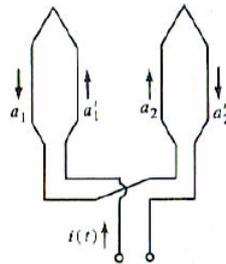


Figure 2-b

- a) two-pole ; four-pole ; increase
- b) two-pole ; four-pole ; reduce
- c) four-pole ; two-pole ; increase**
- d) four-pole ; two-pole ; reduce