

A level Physics B

H557/01 Fundamentals of physics

Question Set 29

- 1 (a) A step-down transformer is shown in Fig. 1. Treat it as an ideal transformer.

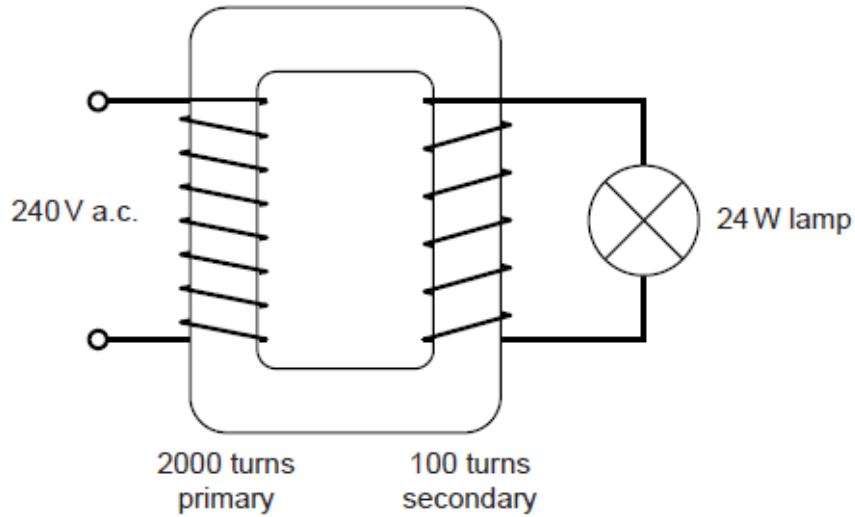


Fig. 1

- (i) Calculate the voltage across the lamp on the secondary coil.

voltage =V [2]

- (ii) Calculate the current flowing in the primary coil.

current =A

- (b) Real transformers are not ideal because of energy losses. [2]

State **one** reason for energy losses in transformers.

[1]

Total Marks for Question Set: 5

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