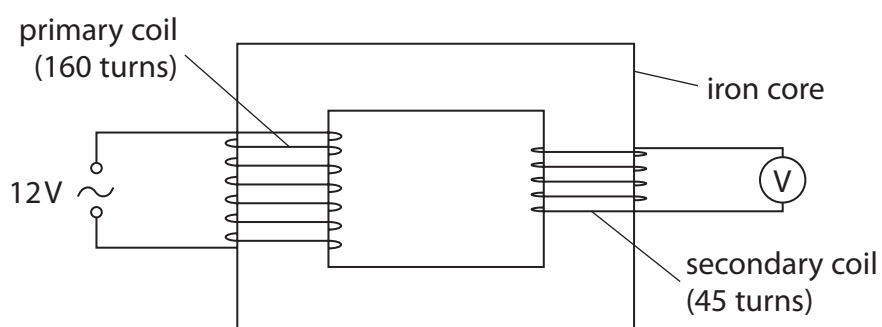


8 The diagram shows a step-down transformer.



(a) Explain the operation of a step-down transformer.

(4)

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- (b) (i) State the formula linking input voltage, output voltage and the turns ratio of a transformer.

(1)

- (ii) Calculate the output voltage for the transformer.

(3)

voltage = ..... V

**(Total for Question 8 = 8 marks)**

**TOTAL FOR PAPER = 70 MARKS**

