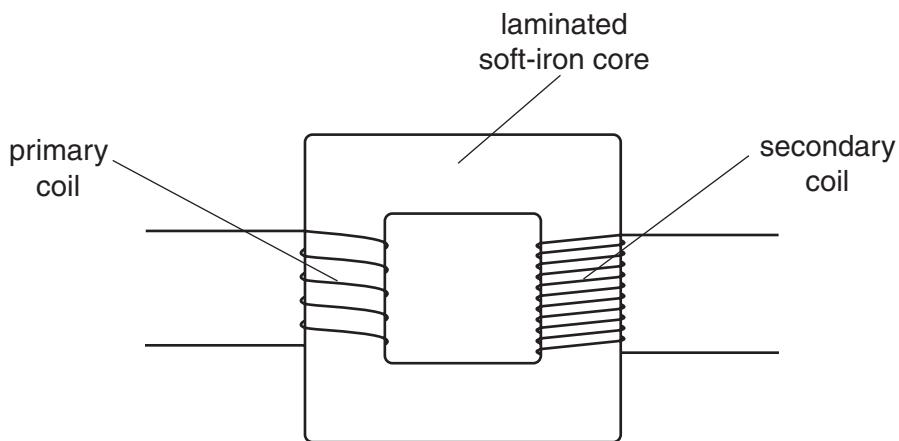


- 6 A simple iron-cored transformer is illustrated in Fig. 6.1.



**Fig. 6.1**

- (a) Suggest why the core is

(i) a continuous loop,

[1]

(ii) laminated.

[2]

- (b) (i) State Faraday's law of electromagnetic induction.

[2]

(ii) Use Faraday's law to explain the operation of the transformer.

[3]

- (c) State two advantages of the use of alternating voltages for the transmission and use of electrical energy.

For  
Examiner's  
Use

1. ....

.....  
2. ....

.....  
[2]