

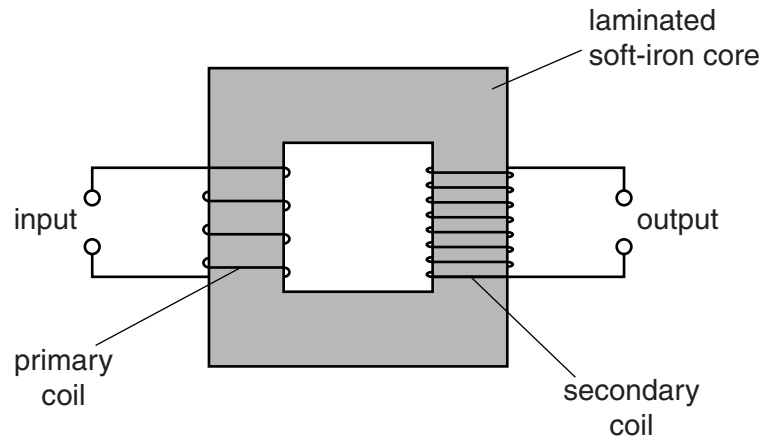
- 7 (a) State Lenz's law.

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.....[2]

- (b) A simple transformer with a soft-iron core is illustrated in Fig. 7.1.



**Fig. 7.1**

- (i) Explain why the core is

1. made of iron,

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.....[1]

2. laminated.

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.....[2]

- (ii) An e.m.f. is induced in the secondary coil of the transformer.  
Explain how a current in the primary coil gives rise to this induced e.m.f.

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