

- 5 The components for a bridge rectifier are shown in Fig. 5.1.

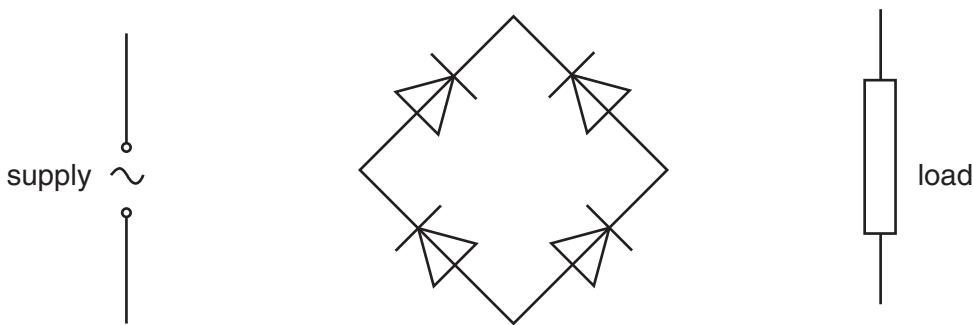


Fig. 5.1

- (a) Complete the circuit of Fig. 5.1 by showing the connections of the supply and of the load to the diodes. [2]
- (b) Suggest one advantage of the use of a bridge rectifier, rather than a single diode, for the rectification of alternating current.

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[1]

- (c) State

- (i) what is meant by *smoothing*,

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[1]

- (ii) the effect of the value of the capacitance of the smoothing capacitor in relation to smoothing.

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[2]