

- 5 A junction is formed between slices of p-type and of n-type semiconductor material, as shown in Fig. 5.1.



Fig. 5.1

- (a) On Fig. 5.1, draw an arrow to show the direction of movement of electrons as the two slices are brought into contact. [1]

- (b) Describe the origin of the depletion region at the junction.

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- (c) On Fig. 5.1, draw the symbol for a battery, connected so as to increase the width of the depletion region. [1]