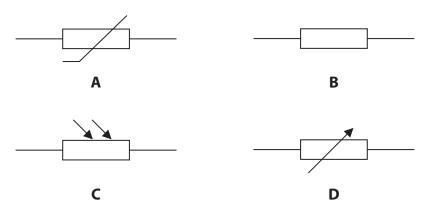
- **2** This question is about electricity.
 - (a) The diagram shows some electrical circuit symbols.



- (i) Which symbol represents a light dependent resistor (LDR)?
- (1)

- \bowtie A
- \bowtie B
- \square D
- (ii) Which symbol represents a fixed resistor?

(1)

- \mathbf{X} A
- \boxtimes B
- **X** C
- D

(b) An electric heater connected to the mains supply has a power of 2200 W.(i) State the equation linking power, current and voltage.	(1)
(ii) Show that the current in the electric heater is approximately 10 A. [mains supply voltage = 230 V]	(2)
 (iii) Which of these fuses should be used with the electric heater? ✓ A 3A ✓ B 5A ✓ C 7A ✓ D 13A 	(1)
(iv) Explain how the fuse protects the electric heater when the current in the electric heater is too high.	(2)
(Total for Question 2 = 8	marks)

