

Q1.

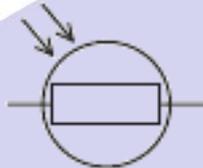
Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box  and then mark your new answer with a cross .

Which of these shows the correct circuit symbol for a thermistor?

(1)



**A**



**B**



**C**



**D**



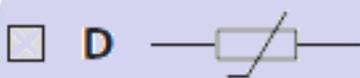
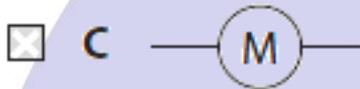
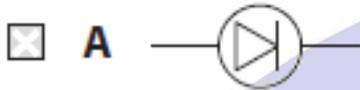
(Total for question = 1 mark)

Q2.

Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box  and then mark your new answer with a cross .

Which of these symbols is used to represent a thermistor in an electrical circuit?

(1)



(Total for question = 1 mark)

**Q3.**

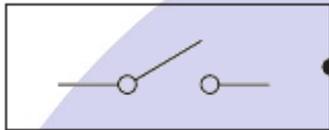
This question is about electrical circuits.

Draw **one** straight line from each circuit symbol to its description.

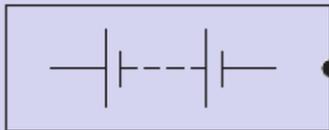
(3)

**circuit symbol**

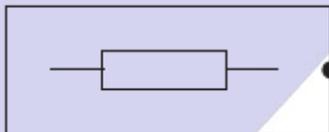
**description**



battery



LED



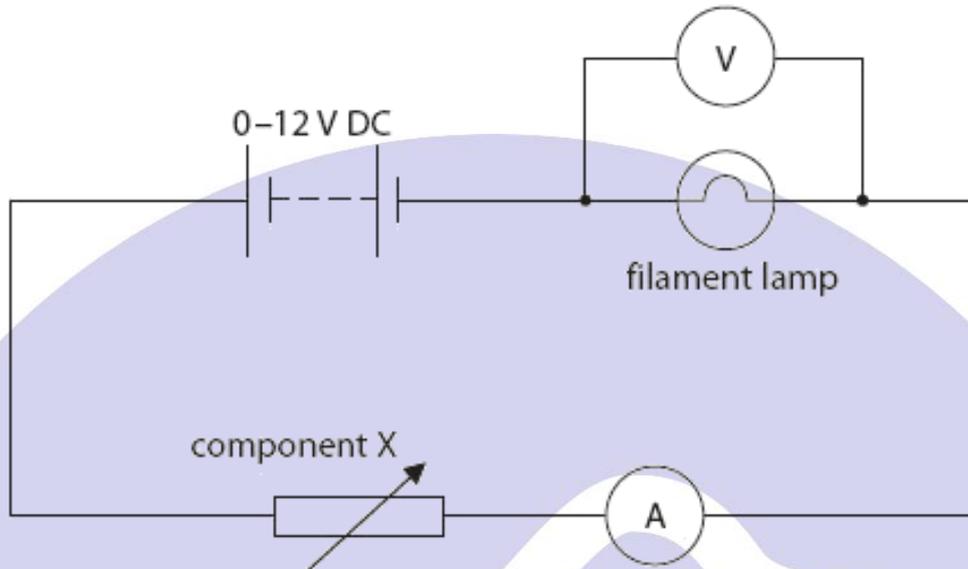
switch

resistor

(Total for question = 3 marks)

**Q4.**

A student sets up an experiment to measure the potential difference (voltage) across a filament lamp. She changes the current through the lamp. The diagram shows the circuit she used.



Complete the sentence by putting a cross (  ) in the box next to your answer.

(i) The component X in the circuit diagram is a

- A diode
- B fixed resistor
- C thermistor
- D variable resistor

(1)

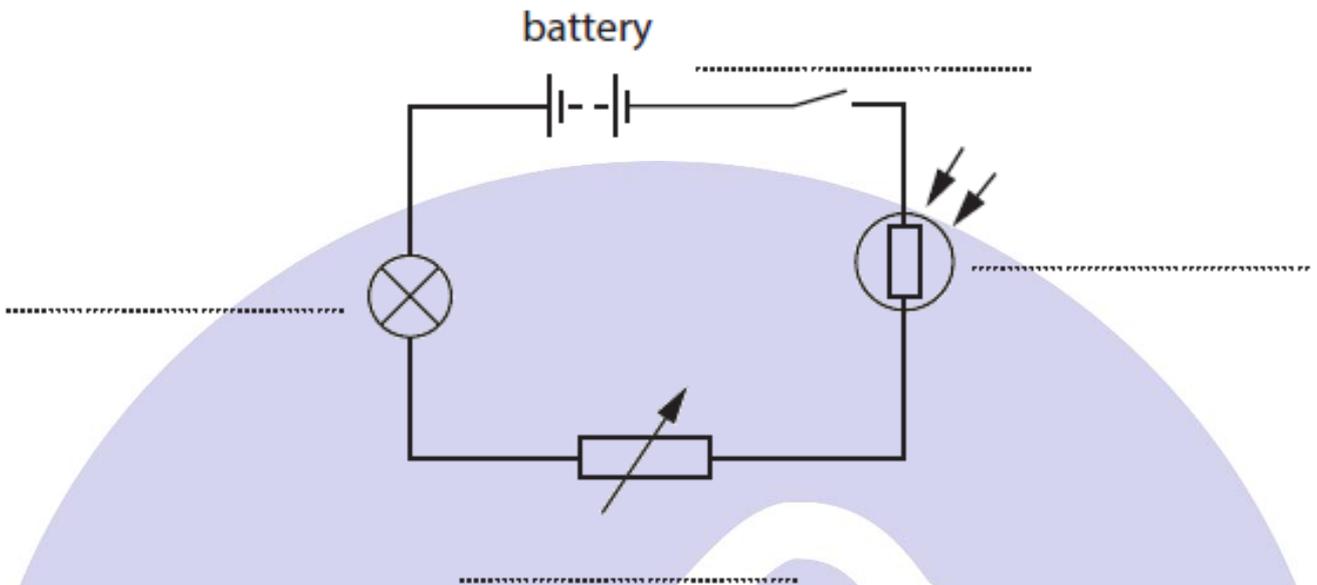
(ii) The meter that measures potential difference is

- A in parallel with the power supply
- B in parallel with the lamp
- C in series with the lamp
- D in series with the component X

(1)

Q5.

Figure 1 shows a circuit containing a battery and **four** other components.



**Figure 1**

Label the **four** components in Figure 1, using words from the box.

- |         |            |                   |
|---------|------------|-------------------|
| ammeter | lamp       | LDR               |
| switch  | thermistor | variable resistor |

(4)

(Total for question = 4 marks)

Q6.

Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box  and then mark your new answer with a cross .

Figure 10 shows two different types of the same circuit component.

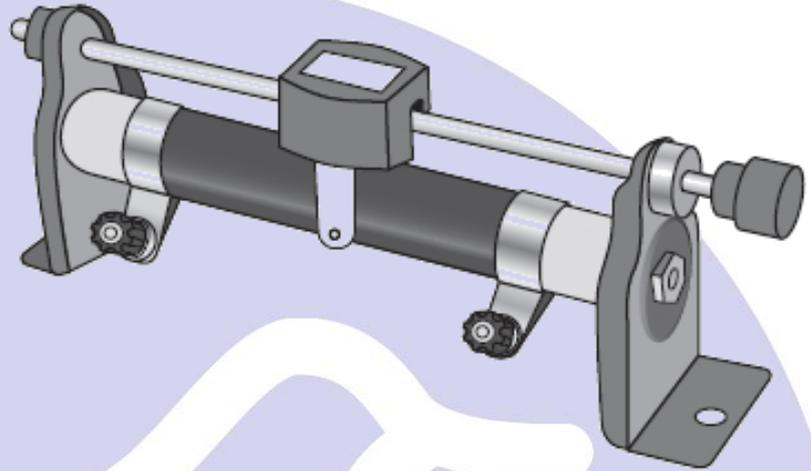
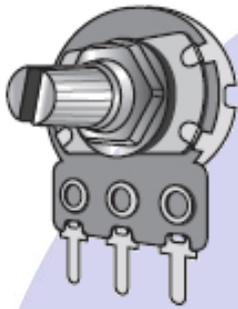


Figure 10

What is the name of this circuit component?

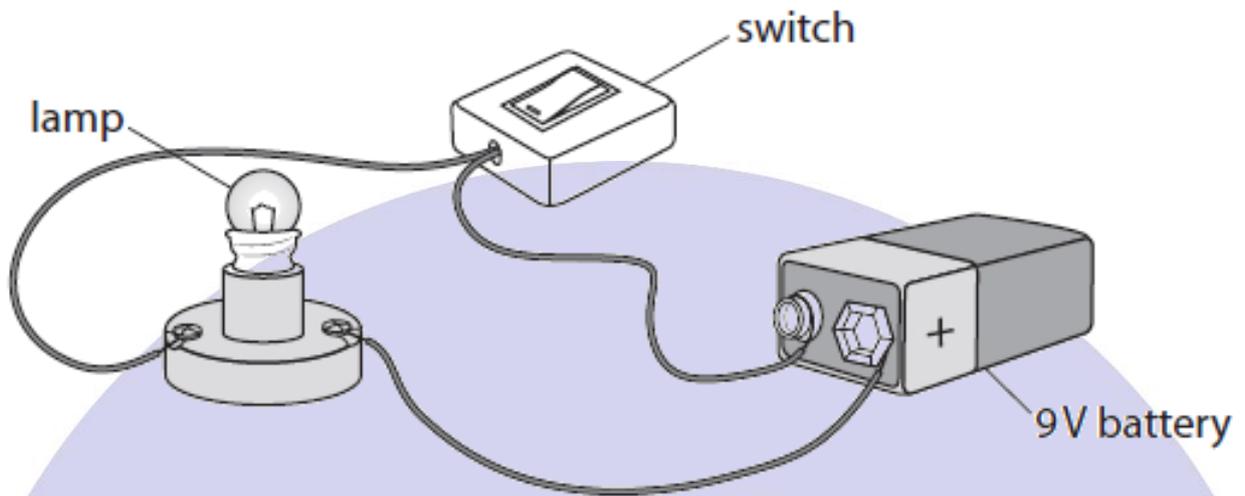
(1)

- A diode
- B light dependent resistor
- C thermistor
- D variable resistor

(Total for question = 1 mark)

Q7.

Figure 1 shows an electrical circuit.



**Figure 1**

Draw a circuit diagram of the electrical circuit in Figure 1 in the space below.

(4)

**(Total for question = 4 marks)**