

### 7.3 Safety Measures When Handling Electrical Appliances

II Which of the following will result in an electric shock?

- Repairing electrical switch after it is turned off
- Leaving a hot iron on the clothes
- Touching the switch with a wet hand
- Using a separate plug and socket for each electrical appliance

I2 Which of the following is the correct way to handle an electrical appliance?

- Wearing gloves while holding a plug
- Using plastic adapter for 2-pins plug
- Touching the switch with a wet hand
- Repairing a broken electrical appliance on your own

I3 A fire broke out in Zul's house. Which of the following could be the cause of the fire?

- Leaving an iron on the clothes while it is turned off
- Turning off all the switches after use
- Replacing a broken wire with a turned off switch
- Installing too many plugs in the socket in his house

### PART C

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**Instruction:** Write the answers in the spaces provided.

### 7.1 Sources of Electrical Energy

I Diagram I shows two electrical circuit arrangements that differ but with the same number of light bulbs. The brightness of the light bulbs is observed during the investigation .

(a) Label circuit X and circuit Y in Diagram I.

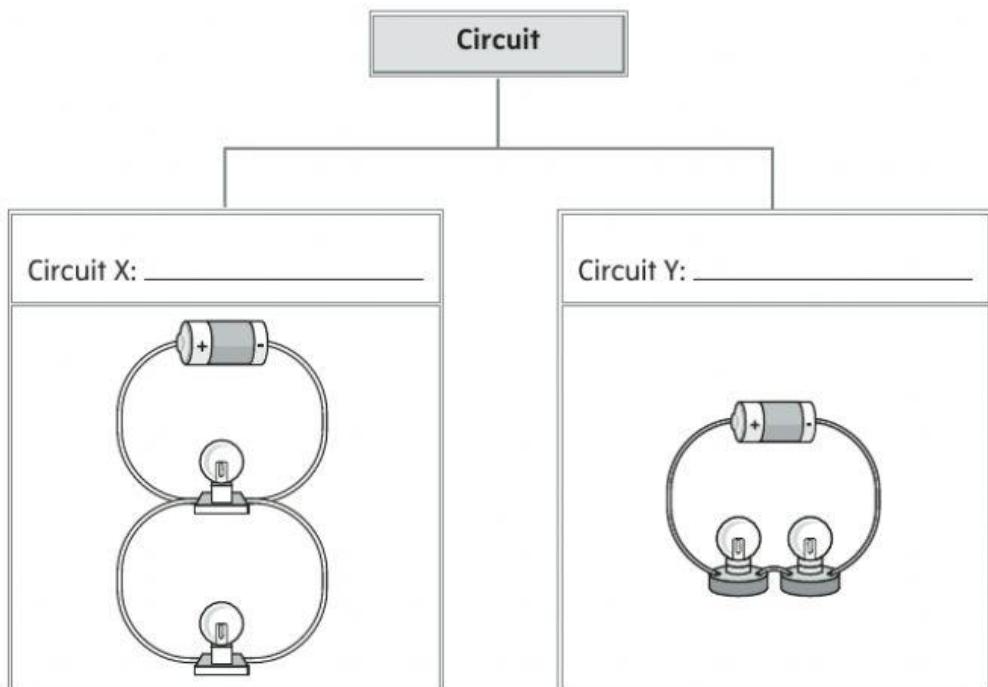


Diagram I

(2 marks)

(b) Which circuit has brighter light bulbs during the investigation?

Circuit X

Circuit Y

(1 mark)

(c) Explain your choice.

**HOTS**


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(1 mark)

2 Diagram 2 shows an electrical circuit.

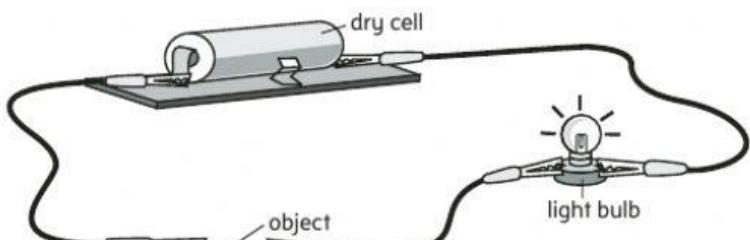


Diagram 2

(a) Name the electrical component that is left out in Diagram 2.

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(1 mark)

(b) Why does the light bulb in Diagram 2 still light up even though an electrical component is left out?

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(1 mark)

3 Diagram 3 shows an electrical circuit.

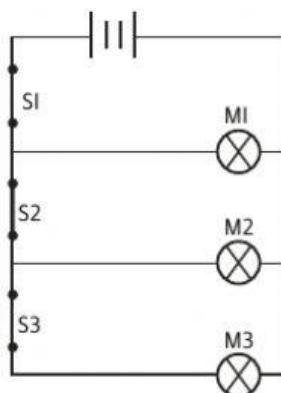


Diagram 3

(a) Predict the condition of the light bulbs in Diagram 3.

**HOTS**


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(1 mark)

(b) State your inference for the condition of the light bulbs in (a).

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(1 mark)

4 Draw each component of an electrical circuit below and state its function.

	Component	Function
(a) Switch		
(b) Light bulb		
(c) Battery		
(d) Connecting wires		

(4 marks)