

Q1.

A battery sends a current through a metal wire.

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

Direct current is movement of charge

(1)

- A** backwards and forwards
- B** in many directions
- C** in one direction
- D** up and down

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

The particles that flow in the metal wire are

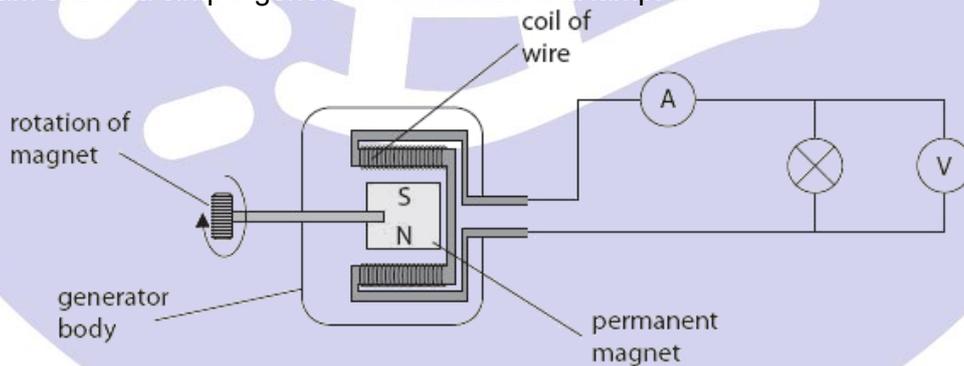
(1)

- A** atoms
- B** electrons
- C** protons
- D** neutrons

(Total for Question is 2 marks)

Q2.

The diagram shows a simple generator connected to a lamp.



(iii) This generator supplies an alternating current (AC) to the lamp.

Other types of generators supply a direct current (DC).

Describe the difference between charge movement in a direct current and in an alternating current.

(2)

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.....

(Total for question = 2 marks)

Q3.

Describe the difference between direct current (d.c.) and alternating current (a.c.) in electrical circuits.

(2)

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(Total for question = 2 marks)

Q4.

Figure 19 shows two electrical devices for heating water.

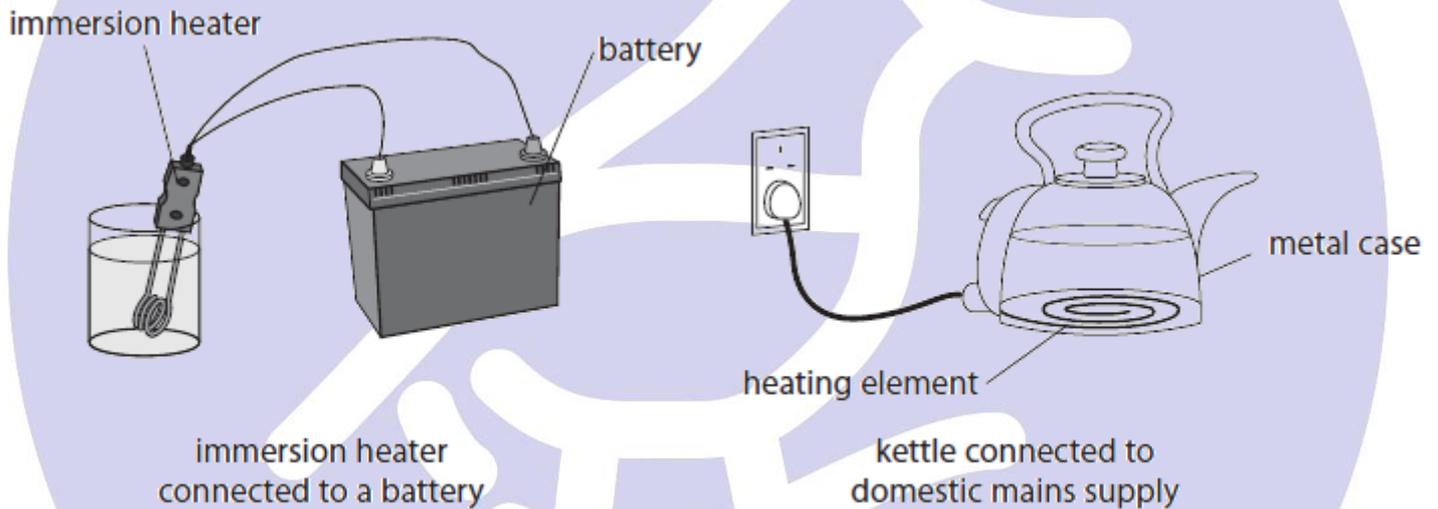


Figure 19

(ii) The current in the heating element of the kettle is 8.3 A.

State **two** differences between the movement of charge in the heating element of the kettle and the movement of charge in the immersion heater.

(2)

1

.....

2

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(Total for question = 2 marks)