**1(a).** This question is about static electricity.

i.	Describe	how a	teacher	charges	a bal	lloon	with:	a clo	th.

\_\_\_\_\_\_[1]

ii. When the teacher charges the balloon, it becomes **positively** charged.

Describe what happens to the charges on the balloon as the balloon becomes positively charged.

\_\_\_\_\_[1]

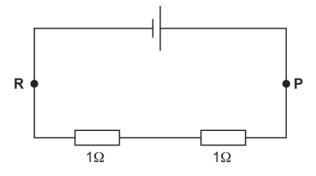
iii. Explain why the balloon sticks to a negatively charged rod.

\_\_\_\_\_\_[1]

**(b).** Calculate the charge flow in a circuit when there is a current of 15 A for 2 minutes.

Use the equation: charge flow = current × time

2. A student makes an electrical circuit.



The current at point **P** in the circuit is 2 A.

What is the current at point **R**?

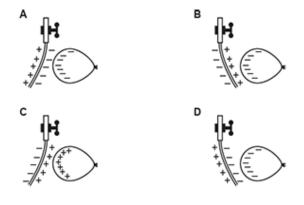
- **A** 0A
- **B** 1A
- **C** 2A
- **D** 4A

**3.** Which row states the correct term used for the rate of flow of charge and a condition for charge to flow in a circuit?

	Rate of flow of charge	Condition for charge flow
Α	current	closed circuit
В	current	open circuit
С	potential difference	open circuit
D	potential difference	closed circuit

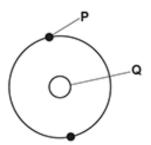
Your answer	[1]
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4. Which diagram correctly shows a charged balloon attracting a stream of water?



Your answer [1]

**5.** The diagram shows a simple model of an atom.



Answer the questions using words from the list.

electron	negative	neutral	neutron	nucleus	proton	

	Type of objects	Charges which move
Α	two insulators	Positive
В	two insulators	negative
С	two metals	Positive
D	two metals	negative

W	/hich	row	in	the	table	is	correct?
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Your answer [1]

**END OF QUESTION PAPER**