

GCSE Physics A (Gateway) J249/03 Physics A P1-P4 and P9 (Higher Tier)

Question Set 3

This question is about electrostatic charges.

A charged rod is brought towards a gentle stream of water from a tap.



(a) Explain how the charged rod affects the stream of water.
Mater is node up of polar molecules, so the Charaped rod unit attract one side of each mater molecule. and so [3] the mater molecule. and so [3] the mater molecule. and so [3] the mater molecule.
(b) (i) Write down the conditions needed for charge to flow through a conductor.
1. Circuit Must be closed [2]
2. A potential difference.

(ii) Calculate the charge that flows past a point in a circuit with a 5.0A current for five minutes. $G = 1 + -5 \times (5 \times 60)$

$$Q = \{E = 5 \times (5 \times 60)\}$$

= 1800
Answer = [500 [4]

Total Marks for Question Set 3: 9

* This is because opposite charges intract.



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