Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic: Electricity (Low Demand)

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Name of the Student:_____
Max. Marks : 24 Marks **Time : 24 Minutes**

Mark Schemes

Q1.

(a) 

1

(b) the flow of electrical charge

1

(c) all 4 components connected in a series circuit

allow a cell instead of a battery
allow an LED or LDR symbol instead of a lamp
ignore the + sign on the battery symbol

1

(d) decrease the resistance of the variable resistor

1

(e) P = 0.75 × 0.16

1

P = 0.12 (W)

1

(f) charge flow = current × time

Q = It

1

(g) 200 mA = 0.2 A

1

charge flow = 0.2 × 15

allow a correct substitution using an incorrectly/not converted value for current

1

charge flow = 3.0 (C)

allow a correct calculation using an incorrectly/not converted value for current

1

(h) 1.6

1

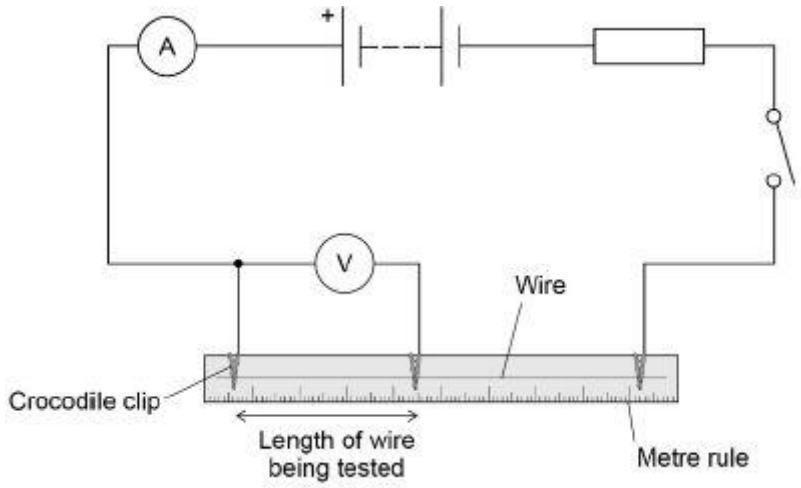
(i) 260 mA to 380 mA

1

[12]

Q2.

(a) both symbols correct and in the correct position



1

(b) the length of the wire being tested

1

(c) the resistance of the wire

1

(d) mean p.d. = $\frac{0.16 + 0.17 + 0.15}{3}$

1

mean p.d. = 0.16 (V)

1

(e) R = 0.32/0.50

1

R = 0.64 (Ω)

1

(f) power = 0.32 × 0.50

1

power = 0.16 (W)

1

(g) charge flow = 0.50 × 17

1

8.5 (C)

1

(h) a straight line through the origin with a lower gradient

1

[12]