Practice Question Set For GCSE

Subject: Physics

(e)

P = V.I.t(1)

 $P = 240 \times 0.2 \times 6 \times 3600$ **OR** $P = 48 \times 6 \times 3600$

gets 1 mark

Paper-1 Topic: Electricity (High Demand)



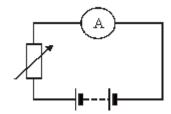
Name of the Student:_ Max. Marks: 20 Marks Time: 20 Minutes Mark Schemes Q1. level drops as petrol used; causes circuit resistance to increase: causes current to decrease for 1 mark each **or** if change not specified; (one correct and two vague statements gains 2 marks, three vague statements gains 1 mark) e.g. level changes; so resistance changes;) = 1 mark so current changes [3] **Q2**. (a) Current = 0.4A(1)R = V/I or 240/0.4 (1)R = 600 ohm (1)3 **Doubles** (b) gets 2 marks OR gets bigger gets 1 mark 2 (c) $P = V.I \text{ or } 240 \times 0.4$ P = 96Wfor 1 mark each 2 (d) 1 = 0.2AP = 48Wfor 1 mark each BUT may get equation mark here if not in (c) 2

3

[12]

Q3.

(a)



3

one mark for each symbol allow more than 2 cells joined

max. 2 marks if symbols incorrectly allow rheostat arrow in either direction

(b) current will decrease

1

since resistance greater

1

[5]