Practice Question Set For GCSE

Subject: Physics

Name of the Student:_

Paper-1 Topic: GCSE Triple Science_Electricity (Low Demand Questions)

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Max. Mar	Time : 20 Minutes				
Mark Sche	eme	S			
Q1.	(i)				
(a)	(i)	Wire	Plug terminal		
		Live	С		
		Neutral	А		
		Earth	В		
			correct for 2 marks v 1 mark for 1 correct	!	2
	(ii)	plastic or rubber <i>acce</i>	ept: ABS UF / urea formalde nylon PVC	hyde	
(b)	(i)	600 allov	v 1 mark for correct s 30 000	ubstitution,	1

(ii) power is greater than 820 (W)

ie P = 50

power is 1200 W is insufficient

provided no subsequent step

1

the lead /cable / wire will overheat / get (too) hot accept lead / cable will melt may overheat / get hot is insufficient

1

so there is a risk of fire accept causing a fire

1

2

any **one** from: most / more efficient smallest energy input (per second) cheapest to operate mark only scores if X is chosen mark is for the reason accept smallest input (power) for same output (power) accept wastes least energy smallest (power) input is insufficient uses least electricity is insufficient 1 [9] Q2. 25(Ω) (a) 1 (b) (i) 2(V) allow 1 mark for showing a correct method, ie 6/3 2 (ii) equal to 1 [4] Q3. (a) (i) 50 (Hz) 1 (ii) 2760 (W) 1 12 (b) allow 1 mark for correct substitution, ie 2400/200 allow 1 mark for 2760/230 provided no subsequent step shown 2 amps 1 (c) the charge is directly proportional to the time switched on for accept for 1 mark the longer time (to boil), the greater amount of charge or positive correlation or they are proportional 2 [7]

(c)

Χ