Practice Question Set For GCSE

**Subject: Physics** 

Paper-1 Topic: Electricity (Low Demand)



Name of the Student: Max. Marks : 18 Marks			Time : 18 Minutes
Mark Scl			
Q1.			
(a)	(i)	D	1
	(ii)	plastic or rubber	
		accept a specific type of plastic	
		accept electrical insulator	1
(b)	460		
		allow <b>1</b> mark for correct substitution ie 2 × 230	2
(c)	any	two from:	
	•	not all appliances need a 13 A fuse idea that 13 A is (much) bigger than required by many appliances do <b>not</b> accept some appliances require more than 13 A do <b>not</b> accept 13 A fuse will blow	
	•	can choose the most suitable fuse (for the appliance)  accept install correct fuse for the appliance	
	•	(in the event of a fault) 13 A fuse may allow too much current to flow through an appliance or fuse may not melt (before appliance is damaged)	
	•	may already have the fuse  idea of reusing a fuse  do <b>not</b> accept cheaper unless explained correctly	2 <b>[6]</b>
Q2.			
(a)	radio		
, ,		radio must be chosen for reason to score	1
	gives	s out sound	
	or	inclusion of other forms of energy negates mark	
	or		

	others give out heat / thermal energy	1	
(b)	Kettle accept 2.5 (kW)	1	
(c)	60 (p)  accept £0.6(0)  allow 1 mark for correct substitution ie 4 × 15  substitution only scores if no subsequent step shown £60 scores 1 mark	2	
(d)	(bigger volume) takes more time (to boil)  accept explanation using data from graph	1	
	(so) more energy transferred  do not accept electricity for energy	1	
	(and) this costs more money  ignore references to cost of water	1	[8]
<b>Q3.</b> (a)	switch  allow answer circled in box	1	
(b)	24	1	
(c)	equal to 0.25 A	1	
(d)	4	1	[4]