Practice Question Set For GCSE

Subject : Physics

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

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Name of Max. Ma	Time : 20 Minutes			
Mark Schemes				
Q1.				
(a)	3 ^{ra} .	box		
		negative charge in the water is repelled by the rod and positive charge is attracted.	1	
(b)	(i)	friction between bettles and conveyor helt / (plactic) guides	1	
(b)	(i)	friction between bottles and conveyor belt / (plastic) guides accept bottles rub against conveyor belt / (plastic) guides	1	
		charge transfers between bottles and conveyor belt / (plastic) guides accept specific reference		
		eg electrons move onto / off the bottles		
		reference to positive electrons / protons negates this mark	1	
	(ii)	an atom that has lost / gained electron(s)		
		do not accept a charged particle	1	
	(iii)	charge will not (easily) flow off the conveyor belt		
		accept the conveyor belt / bottle is an insulator / not a conductor		
		accept conveyor belt is rubber	1	
			[5]	
Q2.				
(a)	brown		1	
(b)	outside / case is plastic / an insulator			
		accept is double insulated		
		accept non-conductor for plastic		
		do not accept it / hairdryer is plastic	1	
(c)	(i)	(1) S ₁		
	•	and no other	1	
		(2) S₁ and S₃		
		both required, either order		

ignore answers in terms of the washing machine releasing less energy

1

an answer in terms of the washing machine releasing CO_{2 negates the mark} do **not** accept less energy is produced

- fewer power stations needed
- less fuel is <u>burned</u>
 accept a correctly named fuel
 do **not** accept less fuel is needed

1

[6]