Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic : 11_Static Electricity

Name of the Student:_____
Max. Marks : 19 Marks **Time : 19 Minutes**

Mark Schemes

Q1.

Question number	Answer	Mark
	B negative | positive	**(1)**

Q2.

Question Number	Answer	Mark
	B negative positive The only correct answer is B correlating with attraction of X to Y, and repulsion of Z from Y.	**(1)** **A01.1**

Q3.

	Answer	Acceptable answers	Mark
(i)	Correct responses can be seen in (i) or (ii) An explanation linking • electrons (1) and one of • removed by friction (1) • (transferred) to plastic (1)	["positive electrons/ protons moving", seen anywhere in part (i) or (ii) loses this mark] ignore reference to charge before rubbing transferred from cloth	**(2)**
(ii)	opposite to charge on plastic (1) equal to charge on the plastic (1)	charge on cloth is positive same size as charge on plastic electrons transferred from the cloth equal to electrons lost by cloth	**(2)**

Q4.

Question number	Answer	Additional guidance	Mark
(i)	C lost electrons A is incorrect because it would give the base a negative charge B and D are incorrect because protons do not move in this situation.		**(1)** **AO1**

Question number	Answer	Additional guidance	Mark
(ii)	any **two** from electrons have been transferred / moved (1) by friction (1)	 cloth has gained electrons accept negative charge for electrons do not credit positive electrons / protons	**(2)** **AO1**

Q5.

Question Number:	Answer	Additional Guidance	Mark
(i)	an explanation to link **3** of the following: friction (between cloth and comb) (1) transfer of electrons / charge {from plastic comb / on to the cloth} (1) electrons carry a negative charge (1) leaving **excess** positive charge on the comb (1)	reference to positive electrons or positive charge moving loses that mark point electrons/charges are rubbed off comb (on to cloth) leaving cloth with negative charge more protons than electrons (on the comb)	**(3)** AO 2 1

Question Number:	Answer	Additional Guidance	Mark
(ii)	an explanation linking: a negative charge is induced (1) on the part of the paper closest to the comb (1) opposite charges attract (1)	 allow a clear description of induction ignore references to positive charge being moved in this context only force of attraction sufficient to pick up the pieces of paper	**(3)** AO 2 1

Q6.

Question number	Answer	Additional guidance	Mark
(i)	An explanation that combines identification - understanding (1 mark) and reasoning - understanding (1 mark): charges move (1) because of **friction** (1)	(negative) electrons transfer glass loses electrons	(2)

Question number	Answer	Mark
(ii)	An explanation that combines identification - understanding (1 mark) and reasoning - understanding (1 mark): (negative) electrons are rubbed off the glass (on to the silk) (1) giving the silk a negative charge (1)	(2)