Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic : 2_Motion and Forces

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

Mark Schemes

Q1.

Question number	Answer	Mark
	C reaction time	(1)

Q2.

Question Number	Answer	Additional guidance	Mark
	B distance **A**,**C**, and **D** are incorrect as these are vector quantities		(1) AO1

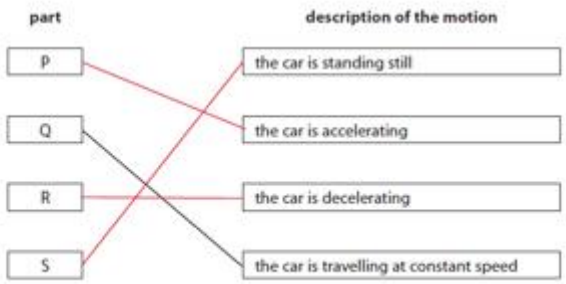
Q3.

Question number	Answer	Mark
	☒ **B** force Options A, C and D are all scalars.	(1)

Q4.

Question number	Answer	Additional guidance	Mark
	Any three improvements from: • suitable instrument to measure distance (1) • using a greater distance (to reduce effect of reaction times) (1) • suitable instrument to measure time (1) • use of one student at the {first/second} lamp post to signal when to {start/stop} timing (1) • two of three sets of students taking readings for the same car (1)	allow tape measure, trundle wheel allow stop watch/clock or timing app. on phone	(3)

Q5.

Question Number	Answer	Mark
(i)	all three correct (2) one or two correct (1) 	(2)

Question Number	Answer	Additional guidance	Mark
(ii)	Q and S Q (1) (and) S (1) OR S (1) (and) Q (1)	in either order maximum of 1 mark if 3 letters given no marks if 4 or more letters given	(2)

Question Number	Answer	Additional guidance	Mark
(iii)	substitution (1) (distance =) 30 x 100 evaluation (1) 3000 (m)	for 1st mp accept 100 x 30 OR (30 x 50) x 2 award full marks for the correct answer without working allow **1 mark** for EITHER 30 x 50 OR 30 x 150 OR 30 x 250	**(2)**

Q6.

Question Number	Answer	Mark
	weight / force (accept circle around weight if not contradicted on answer line)	**(1)** AO 1 2

Q7.

	Answer	Acceptable answers	Mark
(i)	B to the left ←		**(1)**
(ii)	A accelerating		**(1)**
(iii)	substitution 625 × 10 (1) Evaluation 6250 (N) (1)	625 × 9.8 6125 (N) give full marks for correct answer, no working	**(2)**