Practice Question Set For GCSE

Subject: Physics

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Paper-2 Topic: GCSE Triple Science_Forces (Standard Demand Questions)

Name of the Student:		 Time : 20 Minutes
Mark Scl		Time . 20 Williages
Q1.		
(a)	В	
	reason only scores if B is chosen	1
	gradient / slope is the steepest / steeper	
	answers must be comparative	
	accept steepest line	
	ignore greatest speed	1
(b)	(velocity includes) direction	
(-)	'it' refers to velocity	
		1
		[3]
00		
Q2.	2.75	
(a)	2.75	
	allow 1 mark for correct substitution, ie $\frac{11}{4}$	
	allow 1 mark for correct substitution, ie 4 23 – 12	
	or $\frac{20-12}{4}$	
	provided no subsequent step shown	
	provided no subsequent step snown	2
	m/s²	
	111/3	1
(b)	driving force increases	
(6)	unving force increases	1
	frictional force increases	
	accept air resistance / drag for frictional force	
	accept all redictarios, aray for meticinal refee	1
	driving force > frictional force	
	anving 10100 / motional 10100	1
		[6]

Q3.

(a) method of suspending card through one hole

	e.g. supported pin / nail through hole		1
	use of plumb line suspended from same point as card term plumb line is not essential		1
	repeating for a second hole		1
	mark points can be scored from labelled diagram(s) unlabelled diagram(s) alone score(s) a maximum of 1 mark		1
(b)	suspended card and plumb line from third hole and mark (new) line accept repeat experiment using the third hole		1
	if accurate 3 lines cross at same point		1
	or		
	place card on finger (tip) (1) accept alternatives eg pin		
	balances where lines cross (1) accept suspend card from point where lines cross accept 'centre of mass' for where lines cross 'card balances' is insufficient		[5]
Q4. (a)	(i) 16 000 allow 1 mark for correct substitution ie 3200 × 5		
		2	
	(ii) 16 000 or their (a)(i)	1	
	(iii) less than	1	
(b)	increases	1	
	decreases correct order only		
		1	[6]