Practice Question Set For GCSE

Subject: Physics

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



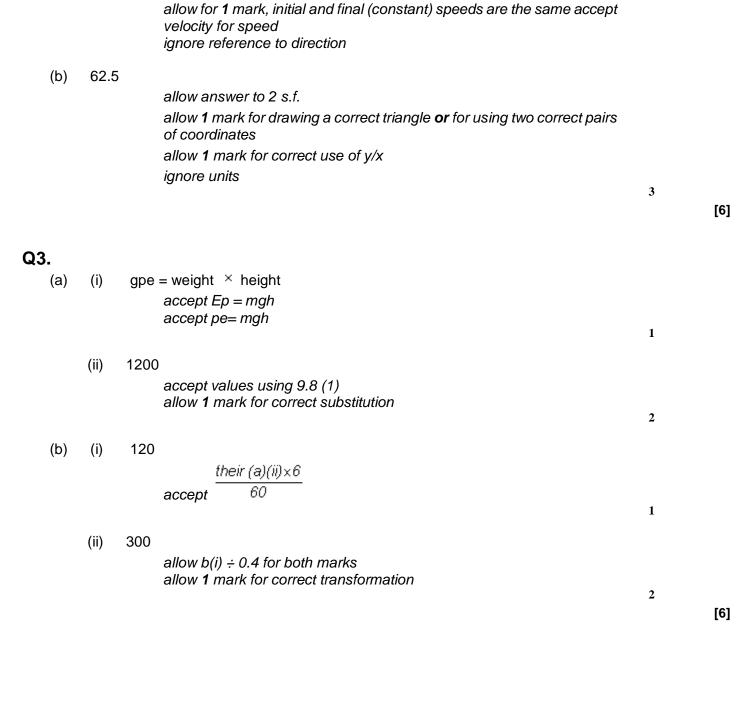
Name of the Student: Max. Marks: 17 Marks Mark Schemes		Time : 17 Minutes			
			Q1.		
				<u>1</u>	
(a)	(i) kinetic energy = $\frac{1}{2}$ × mass × speed ²				
	1 -				
	$accept ke = \frac{\overline{2}}{2} mv^2$				
	do not accept $KE = \frac{1}{2} ms^2$				
	do not accept KE = 2 ms²	1			
	(ii) 13				
	(ii) 13 allow 1 mark for correct substitution or transformation				
		2			
(b)					
	if B is at the top of the curve - no marks				
	PE at A maximum				
	PE at B minimum				
	PE at C just less than or = to A do not accept wavy lines or very non-symmetrical				
	accept straight lines or curves				
	accept on ang. it in its or can vec	1			
	difference between A and B is 5000 to 5200				
		1			
		[5]			
Q2.					
(a)	Quality of written communication				
()	for correct use of term speed in all correct examples				
	Q 🗸 Q 🗶				
	describes all 3 sections correctly for 2 marks	1			
	describes 2 or 1 section correctly for 1 mark				

 $\boldsymbol{B}-\boldsymbol{C}$ (has accelerated) to a higher (constant) \underline{speed}

do not accept pace for speed

A – B constant speed

max 2



C - D goes back to original / lower (constant) speed