## Practice Question Set For GCSE

**Subject: Physics** 

## Paper-2 Topic: GCSE Triple Science\_Forces (Standard Demand Questions)

Name of Max. Ma		Time : 17 Minute	
Mark Sch	nemes		
Q1.			
(a)	Α		
		must be correct for reason to score	
	momen	t (due to weight) of sail is the largest	1
	or		
	(perpendicular) distance from pivot to rope the smallest		
		do <b>not</b> accept sail is low <b>or</b> sail is too heavy	1
(b)	(i) r	no resultant turning moment <b>or</b> in a state of balance <b>or</b> balanced  allow clockwise moments =  anticlockwise moments  allow no resultant force  allow (forces are) balanced  allow no acceleration	
		do <b>not</b> allow forces are equal	1
	(ii) m	noment = 420  allow 1 mark for moment = 700 × 0.6  or  700 × a distance from diagram (1.5, 2.1, 0.9)	2
	(iii) f	orce = 280 $420 = F \times 1.5$ or $F = \frac{\text{their (b)(ii)}}{1.5}$ 1 mark only	
		if (b)(ii) obtained by a correct method (1470, 630, 1050)	2
(c)	(as win	d speed increases) the force on the sail increases	
		accept pressure	1
	aniticlo	ckwise moment increases <b>or</b> moment on sail increases	

1

		clockwise moment ( <b>or</b> opposite moment) needs to increase (by increasing distance from the pivot)	1	[10]
Q2.				
(a)	(i)	zero		
		accept nothing	1	
		speed is zero		
		accept not moving	1	
	(ii)	A	1	
		largest mass <b>or</b> weight  accept heaviest luggage		
		do <b>not</b> accept largest luggage	1	
	(iii)	momentum does change		
	( )	accept yes	1	
		direction is changing  accept velocity is changing		
		do <b>not</b> accept answers in terms of		
		speed changing	1	
(b)	kg m/s		1	
			•	[7]