Practice Question Set For GCSE

Subject : Physics

Paper-2 Topic: Waves (Standard Demand Questions)

Name of the Student:



Max.	Mar	ks : 1	8 Marks	Time: 18 Minutes	
Mark	Mark Schemes				
Q1					
	(a)	(i)	a horizontal distance indicated and labelled gains 1 mark		
			but horizontal distance indicated between identical points on adjacent waves (to within 3-4mm) and labelled gains 2 marks	2	
		(ii)	peak ↔ trough indicated* gains 1 mark	2	
			but peak / trough ↔ mean indicated*		
			(* to within 1-2mm either end) gains 2 marks (allow 1 mark if both lines unlabelled or 2 marks if both lines accurately drawn and unlabelled)	2	
	(b)	•	1.5		
		•	hertz / Hz or (waves / cycles) per second for 1 mark each (do not allow wavelength / hertz per second)	2 [6]	
Q2					
٧.	(a)	one	of the areas where particles are spread out labelled R	1	
	(b)	para	illel	1	
	(c)	340	(m / s) allow 1 mark for correct substitution i.e. speed = 400 × 0.85 provided that no subsequent steps are shown	wn 2 [4]	

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w	J.

(a) (i) a ray drawn leaving the block parallel to the incident ray straight, continuous line judged by eye do **not** accept a ray of light with an arrow towards the block

1

(ii) normal

1

(b) (i) a smooth <u>curve</u> drawn through the points

1

(ii) as the angle of incidence increases the angle of refraction increases

allow correct description of their answer to (i) ignore the angle of incidence is always larger than the angle of refraction

1

it is a non-linear graph

or

not directly proportional

allow a correct description of the graph / points

[5]

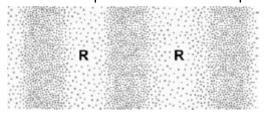
1

Q4.

(a) same / parallel to

1

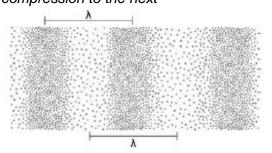
(b) (i) letter R where the particles are furthest apart



1

(ii) student correctly indicates one wavelength

wavelength may be from one rarefaction to the next or from one
compression to the next



1

[3]