Practice Question Set For GCSE

Subject: Physics

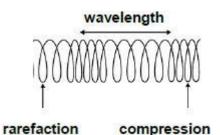
Name of the Student:_

Paper-2 Topic: Waves (Low Demand Questions)



Max. Marks: 17 Marks		Time: 17 Minutes
Mark Schemes		
Q1.		
(a)	velocity	1
	frequency	1
	wavelength	1
(b)	so people are not exposed to (as much) gamma radiation allow less gamma radiation reaches the Earth's surface	
	allow less garrina radiation reaches the Latting surface	1
	because gamma radiation can damage human tissue	
	allow increases the risk of cancer or (cell) mutation allow gamma rays are ionising	
	ignore any reference to temperature / heating of the atmosphere	1
(c)	(microwaves) are used in (satellite) communications	
	ignore any reference to temperature / heating of the atmosphere	1
(d)	can cause skin cancer / premature ageing	
	allow sunburn	
	allow eye / skin damage cancer on its own is insufficient	1
(e)	risk from UV radiation is highest in July / summer	•
	allow any sensible comparison of named months / seasons	1
	two correct readings from the bar chart which support their comparison	
	if no other mark scored, two correct readings from the graph score mark	s 1
		1 [9]

(a)



(b) longitudinal

3

1

(c) **Level 2:** The method would lead to the production of a valid outcome. Key steps are identified and logically sequenced.

3-4

Level 1: The method would not necessarily lead to a valid outcome. Some relevant steps are identified, but links are not made clear.

1-2

No relevant content

0

Indicative content

- measure the distance between the student with the bricks and the wall
- trundle wheel or tape measure
- measure the time taken from banging the bricks to the echo
- double the measured distance to give the distance travelled or half the time
- use:

$$speed = \frac{distance travelled}{time}$$

- repeat timings
- remove anomalies
- calculate a mean

[8]