Practice Question Set For GCSE

Subject: Physics

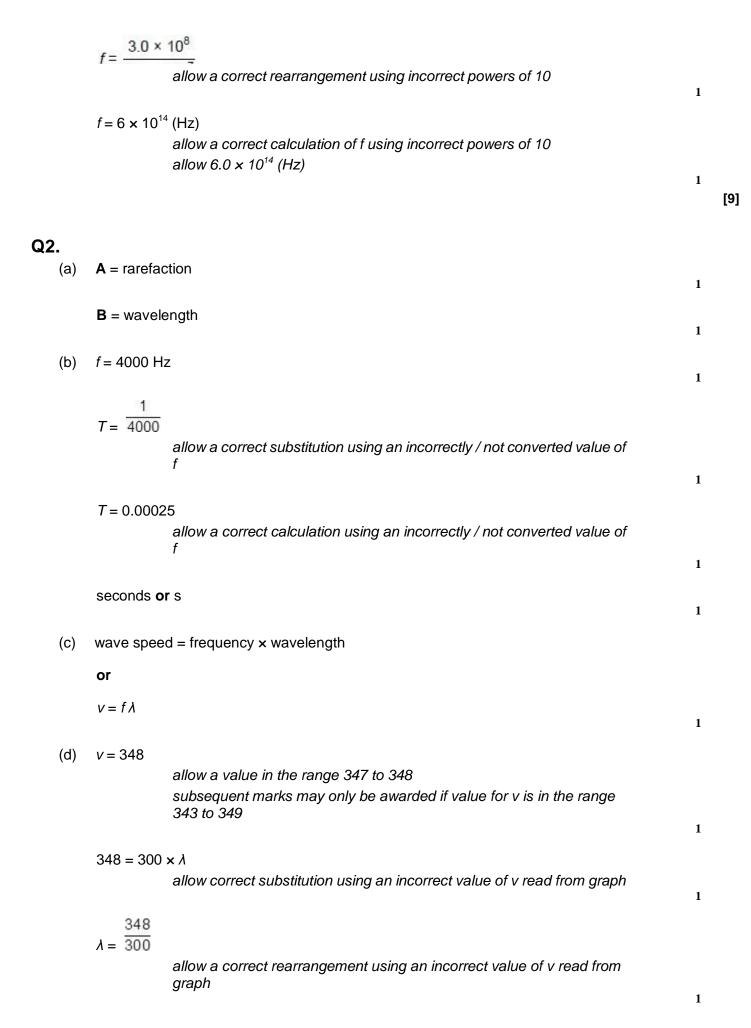
Name of the Student:_ Max. Marks : 20 Marks

Paper-2 Topic: Waves (Standard Demand Questions)



Time: 20 Minutes

Mark Schemes		
Q1.		
(a)	A radio waves	
	B microwaves	
	C X-rays	
	allow 1 mark if 2 correct	2
(b)	Similarity	
	 any one from: same speed (in a vacuum) both transfer energy both transverse allow both can travel through a vacuum allow both are ionising allow both can harm living tissue allow both can be used for medical treatment / imaging 	1
	Difference	
	 any one from: gamma has a higher frequency allow gamma has more energy gamma has a shorter wavelength gamma is more ionising gamma is more penetrating 	1
(c)	refraction	1
(d)	wave speed = frequency × wavelength	
	or	
	$V = f \lambda$	
		1
(e)	$3.0 \times 10^8 = f \times 5.0 \times 10^{-7}$	1



1.16 (m)

allow 1.2 (m) allow a correct calculation using an incorrect value of v read from graph allow a maximum of **2** marks for use of v = 330 m/s

[11]

1