Practice Question Set For GCSE

Subject: Physics

Paper-2 Topic: GCSE Triple Science_Waves (LDQ)



	the Student:rks : 20 Marks	Time : 20 Minut	es
/lark Sch			
Q1.			
(a)	increased	1	
(b)	(count) how many waves pass a point	1	
	in one second this is dependent on the first mark point being awarded	1	
	or		
	(count) number of waves that pass a point in a given time allow a specific time for a given time		
	or (count) number of waves that are produced in a given time (1)		
	and divide by that time in seconds this is dependent on the first mark point being awarded allow an answer in terms of measuring the frequency of the vibrate	ing bar	
(c)	$period = \frac{1}{5}$	1	
	period = 0.2	1	
	seconds / s	1	[6]
Q2.			
(a)	glass vase	1	
(b)	transmit	1	
(c)	the T-shirt reflects all wavelengths / colours of light (equally) allow T-shirt reflects (white / all) light	1	

(d) changes from red to black it appears black it is darker is insufficient 1 as the cap absorbs (all) the (blue) light or as the cap does not reflect the (blue) light 1 (e) distance the time all 3 lines correct allow 1 mark for 1 line correct if more than one line drawn from a variable all of those lines do not score 2 (f) the (infrared) heater allow infrared (radiation) do not accept answers where burning yourself is given as the hazard 1 answer must be a comparison, e.g. the matt / black surface is the better absorber (of (g) infrared radiation) matt black is a good absorber is insufficient 1 [9] Q3. (a) C 1 (b) radio waves have a longer wavelength than ultraviolet 1 (c) (risk of) skin cancer cancer is insufficient (prematurely) ageing skin skin damage is insufficient ignore kills skin cells 1 risk is higher (for X-ray of uds than X-ray of chest) (d) 1 by a factor of 50 risk calculated for each type of X-ray chest X-ray = 1:200 000 (1) uds = 1:4000 (1)1 [5]