Practice Question Set For GCSE

Subject: Physics

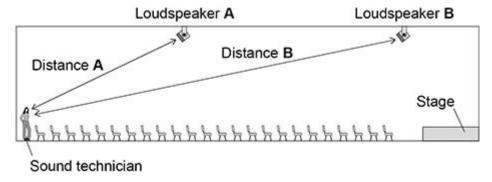
Paper-2 Topic: GCSE Triple Science_Waves (LDQ)



Name of	the Student:					
	rks : 24 Marks				Time : 24 Minutes	
Q1.						
	ınd travels as lon	gitudinal waves.				
(a)	Complete the s	entences.				
	Choose the ans	swers from the box	-			
	amplitude	frequency	speed	wavelength		
	The distance b	etween the centre	of one compre	ession of a sound wave	e and the centre	
	of the next com	pression is called t	he			
	The number of	waves passing a p	oint each sec	ond is called the		
					(2)	
(b)	Complete the s	entence.				
	Choose the ans	swer from the box.				
	opposite	perpendicular	parallel			
	In a longitudina	l wave, the oscillat	ions are			
	to the direction	of energy transfer.				
					(1)	
(c)	A sound wave I					
	Which of the fo					
	Tick (✓) one box.					
	0.0080 Hz					
	8.0 Hz					

e the equati	on:	wavelength =	speed frequency			
e the equation	on: it from the box.		C-072200000			
e the equation	on: it from the box.		C-072200000			
e the equation	on: it from the box.		C-072200000			
e the equati	on:	wavelength =	C-072200000			
			speed			
eea oi sound	d = 330 m/s					
	-	ound wave with	n a frequency of 6600) Hz.		
			Per	riod =		s (2
			equency of 6.0 kmz.			
loulate the p	pariod of a sound	waya with a fr	aguanay of 9.0 kHz			(1
00 000 Hz						
000 Hz						
de	culate the p	0 000 Hz	0 000 Hz	0 000 Hz culate the period of a sound wave with a frequency of 8.0 kHz.	0 000 Hz	0 000 Hz

The figure below shows the arrangement of two loudspeakers at a concert venue.



The loudspeakers in above diagram are tested by playing the same song through both loudspeakers.

(f)	Write down the equation which links distance (s), speed (v) and time (t).	_
(g)	Distance A on above diagram is 13.2 m.	(
	speed of sound = 330 m/s	
	Calculate the time taken for the sound to travel from loudspeaker A to the technician	1.
		-
	Time taken =	
L\	The second from each leveloped leveloped to the second	(3
h)	The sound from each loudspeaker travels at the same speed. For the sound technician to hear the song clearly, the sound from loudspeaker B she emitted slightly before the sound from loudspeaker A .	ould be
	Explain why.	_
		-
		-
		-
		3) Total 16 marks)
Figu	ure 1 shows a water wave.	
	Figure 1	

A sound technician listens to the song.

	Tick (✔) one bo	ox.					
	Electromagneti	ic					
	Longitudinal						
	Transverse						
				(1			
(b)	Which statement Tick (✓) one bo		ement of the water at point X ?				
	The water at po	oint X does not move	e.				
	The water at po	oint X moves to the le	eft				
	The water at po	oint X moves up and					
				(1			
(c)	The wave has a	frequency of 2.0 her	tz.				
	The wavelength	is 0.032 metres.					
	Calculate the wave speed.						
	Use the equation:						
	wave speed = frequency × wavelength						
	Choose the unit from the box.						
	m²/s	m/s	s ²				
			Wave speed = Unit	(3			
(d)	What is transfer	red by all waves?					
	Tick (✔) one bo	ox.					

(a) What type of wave is a water wave?

