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Assignment:			
1. Which of the following waves d	loes not travel in vacuum?		
a. Seismic waves b. X-r	ays c. Light	d. Radio waves	
2. A transverse wave consists of			
a. only crests	b only tro	oughs	
c. both crests and troughs	d. rarefac	d. rarefactions and compressions	
3. Sound wave in rocks is:		•	
a. Longitudinal stationary	b. <i>Trans</i> t	b.Transverse stationary	
c. Longitudinal & transverse v	vave d. Wave	d. Wave in rock does not propagate	
4. Which of the following is a mec	hanical wave?		
a. <i>Radio wave</i> b. X –	ravs c. Light wave	d. Sound waves	
5. Which of the wave is transverse	wave?		
a Sound in gir h waves produced in rod rubbed along its length			
c Wayes in wire			
6 Which of the following properti	es of a wave is independent	t of others?	
a Velocity b Free	cs of a wave is independent	ength d'Amplitude	
7 When the propagation of a long	itudinal wave through a ma	terial medium takes place the quantities	
transmitted in the direction of n	ropagation are:	actial medium takes place, the quantities	
a energy, momentum and mass	b. energy	<i>I</i>	
c. energy and mass	d. energy	and linear momentum	
85	8,		
 8. A wave is propagating along a standard A cos (ωt + kx). This represent a. A transverse wave along +ve x-a c. A longitudinal wave along +ve x 	tring and the displacement of ts: xis b -axis d	be particle along y-axis is given by $y(x, t) =$ b. A transverse wave along $-ve$ x-axis d. A longitudinal wave along $-ve$ x-axis	
9. The distance between two cons	secutive crests in a wave tra	ain produced in a string is 5 cm. If 2	
complete waves pass through n	nedium per second, then th	ne velocity of wave is:	
a. $2.5 \ cms^{-1}$ b. 5 cm	ns ⁻¹ c. 10 cm.	$d. 15 \ cm s^{-1}$	
10. The equation of a wave is repre	esented by: $y = 10 sin(10)$	00t - x/10). The velocity of the wave will	
2 100 m/s $b 250 m/s$	750 m/s	d 1000 m/s	
11. The distance between two poin	ts differing in phase by 60°	on a wave having a wave velocity 360 m/s	
& frequency 500 Hz is:	TTE		
a. 0./2m b. 0.18m	c. 0.36m	d. 0	
12. The equation of a traveling wav meter. The ratio of maximum parts	the is $y = 60 \cos (1800t - t)$ article velocity to wave velocity	6x) where y is in microns t in secs and x in ocity is	
a. 3.6×10^{-11}	b. 3.6×10^{-6} c	c. 3.6×10^{-4} d. 3.6×10^{-2}	
13. Figure shows a sinusoidal wave phase?	e at a given instant which p	points are in A	
a. <i>A</i> , <i>B</i> b. <i>B</i> , <i>I</i>	D c. <i>C</i> , <i>E</i>	d. <i>B</i> , <i>C</i>	
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