Conceptual Physics Practice Test Waves			Name: Date:			
1. A single disturbance that a. period	moves from point to point b. periodic wave	through a medium is called a. c. wavelength	d. pulse			
2. If the particles of the mean a. longitudinal		o in the same direction of ene standing d. transverse	rgy transport, then the wave is:			
3. When the particles of a n a. longitudinal	nedium are vibrating at righ b. sound		ergy transport, then the wave is: ansverse			
4. A transverse wave is traveling through a medium. See diagram below. The particles of the medium are vibrating: A $C$ $D$ $E$ $F$ $G$ $H$ $I$						
<ul><li>a. parallel to the line joining</li><li>c. perpendicular to the line</li><li>e. along the curve CAEJGBI.</li></ul>	joining AD.	b. along the line join d. at various angles				
5. If the energy in a longitudinal wave travels from south to north, the particles of the medium would be vibrating:						
a. from north to south, only	1	b. both north and sc	buth			
c. from east to west, only		d. both east and we	st			
6. As a pulse travels though a. decreases	a uniform medium, the sp b. increases	eed of the pulse. c. remains the sam	e			
7. The main factor which ef	fects the speed of a sound	wave is the:				
a. amplitude of the sound v c. loudness of the sound	vave	b. intensity of the sou d. properties of the n				
e. pitch of the sound		a. properties of the n	neurum			
8. As a wave travels into a medium in which its speed increases, its wavelength would:						
a. decrease	b. increase	c. remain the same				
9. As a wave passes across a a. speed	a boundary into a new med b. frequency	ium, which characteristic of th c. wavelengt	_			
10. What is the amplitude of the wave in the diagram below? 0.080  m 0.060  m 0.060  m 0.060  m 0.060  m 0.060  m 0.05  m 0.05  m 0.060  m						
a. 0.03 m.	b. <b>0.04 m</b> .	c. 0.05 m.	d. <b>0.06 m.</b>			

11. The wavelength of the v	vave in the diag	ram above (Question #10) is	m.
a. 0.030	b. <b>0.040</b>	c. <b>0.060</b>	d. <b>0.080</b>

Consider the following diagram for Questions #12-#13.							
12. How many waves are show a. 1 b. 2		.3	d. 1.5				
13. If the distance from point A to point B in the diagram is 60 cm, then the wavelength is							
a. 20 cm.	b. 40 cm.	c. 60 cm.	d. 90 cm.				
14. The number of cycles of a a. wavelength.	periodic wave occurring b. period.	per unit time is defined a c. amplitude.	as a wave's d. frequency.				
15. A periodic and repeating disturbance in a lake creates waves which move outward from its source to produce circular wave patterns. If the frequency of the source is 2.00 Hz and the wave speed is 5.00m/s then the distance between adjacent wave crests (wavelength) is meters.							
a. 0.200 b. 0	0.400 с.	1.25 d. 2	.50 e. 10.0				
16. What is the frequency of a a. 10 hertz. b.	a wave that has a speed o 20 hertz.	f 0.4 m/s and a wavelen c. 0.008 hertz.	gth of 0.020 meter? d. 0.5 hertz.				
17. Many wave properties are dependent upon other wave properties. Yet, one wave property is independent of all other wave properties. Which one of the following properties of a wave is independent of all the others?a. wavelengthb. frequencyc. periodd. velocity							
18. A pendulum makes exactly 40 vibrations in 20.0 s. Its period is (Be careful of the units.)a. 0.500 Hz.b. 0.500 s.c. 2.00 Hz.d. 2.00 s.e. 8.00 x 102 Hz.							
<b>19.</b> A period of 0.005 seconds a. 20 b. 50	would be equivalent to a c. 200	frequency of Hz. d. 500	e. 2000				
20. <b>TRUE or FALSE:</b> The number of waves generated per second by a source is called the frequency of the source. a. True b. False							
21. <b>TRUE or FALSE:</b> The SI (international system standard) unit for frequency is hertz. a. True b. False							
22. <b>TRUE or FALSE:</b> Doubling the frequency of a wave source (without altering the medium) doubles the speed of the waves. a. True b. False							
23. If the frequency of a wave a. quartered.	is doubled and if the spe b. halved.	ed remains constant, its c. unchanged.	wavelength is d. doubled.				
24. Constructive interference a. True b. Fa		o crests meet.					
25. Which one of the followin a. Liquid air d. Solid steel	g CANNOT transmit soun b. Gaseous oxygen e. Perfect vacuum	d?	c. Liquid water				