TALLER DE SONIDO 7°

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

 The source of every sound is something that is A) a net emitter of energy. B) moving. C) undergoing simple harmonic motion. D) accelerating. E) vibrating. 		1)
 2) A sound source of high frequency emits a high A) pitch. B) amplitude. C) speed. D) all of these E) none of these 		2)
 3) The approximate range of human hearing is A) 60 hertz to 20,000 hertz. B) 10 hertz to 10,000 hertz. C) 40 hertz to 40,000 hertz. D) Actually all of these – depends on the hearing 	ability of the person.	3)
4) We are best at hearingA) infrasonic sound.C) ultrasonic sound.	B) both infrasonic and ultrasonic sounds.D) None of the above choices are true.	4)
 5) A sound wave is a A) longitudinal wave. B) standing wave. C) shock wave. D) transverse wave. E) None of the above choices are correct. 		5)
 6) Compressions and rarefactions are characteristic of A) longitudinal waves. C) both longitudinal and transverse waves. 	B) transverse waves.D) none of the above.	6)
 7) Sound travels faster in A) water. B) air. C) steel. 		7)

D) a vacuum.

E) Sound travels at about the same speed in all of the above media.

8) Sound waves cannot travel in				8)	
A) steel.					
B) a vacuum.					
C) water.					
D) air.					
E) any of the above media					
9) The speed of a sound wave in air de	enends on			9)	
A) its wavelength				<i>')</i>	
B) its froquoney					
C) the air tomporature					
D) All of the above choices are co	proct				
E) None of the above choices are co	corroct				
E) None of the above choices are	correct.				
0) Refraction of sound can occur in				10)	
A) air.		B) water.			
C) both air and water.		D) neither air no	or water.		
1) The frequencies of sound that carry	farther in air are			11)	
A) high.	B) low.		C) ultrasonic.	, <u> </u>	
2) The natural frequency of an object of	lepends on its			12)	
A) size and elasticity.		B) size, shape an	nd elasticity.		
C) size and shape.		D) shape and ela	asticity.		
3) The object with the highest natural	frequency is a			13)	
A) medium size bell.	B) large bell.		C) small bell.	·	
14) Caruso is said to have made a cryst	al chandelier shat	ter with his voice.	This is a demonstration of	14)	
A) an echo.					
B) sound refraction					
C) resonance.					
D) beats					
E) interference.					
E) Sound way on an interform with and	another co that n	a cound results		15)	
(b) Sound waves can interfere with one		o sound results.		15)	
A) True B) Falsa					
D) False	an the air tempe	ratura			
	g on the air tempe	rature.			
16) In designing a music hall, an acoust	ical engineer deal	s mainly with		16)	
 16) In designing a music hall, an acoust A) wave interference. 	ical engineer deal	s mainly with		16)	
 In designing a music hall, an acoust A) wave interference. B) beats. 	ical engineer deal	s mainly with		16)	
 In designing a music hall, an acous A) wave interference. B) beats. C) forced vibrations. 	ical engineer deal	s mainly with		16)	
 16) In designing a music hall, an acoust A) wave interference. B) beats. C) forced vibrations. D) modulation. 	ical engineer deal	's mainly with		16)	

- 17) The phenomenon of beats results from sound
 - A) reflection.
 - B) refraction.
 - C) interference.
 - D) all of these
 - E) none of these

18) Which doesn't belong to the same family?

- A) ultrasonic waves
- B) longitudinal waves
- C) radio waves
- D) shock waves
- E) infrasonic waves

Figure 20-A



- 19) When the handle of a tuning fork is held solidly against a table, the sound becomes louder and the 19)
 time that the fork keeps vibrating
 - A) becomes shorter.
- B) remains the same.
- C) becomes longer.

Figure 20-B



20) Repeatedly tap the side of a drinking glass with a spoon while filling it with water and you will notice that the pitch of the sound

20)

A) decreases.B) increases.

C) remains relatively constant.

17) _____

18)