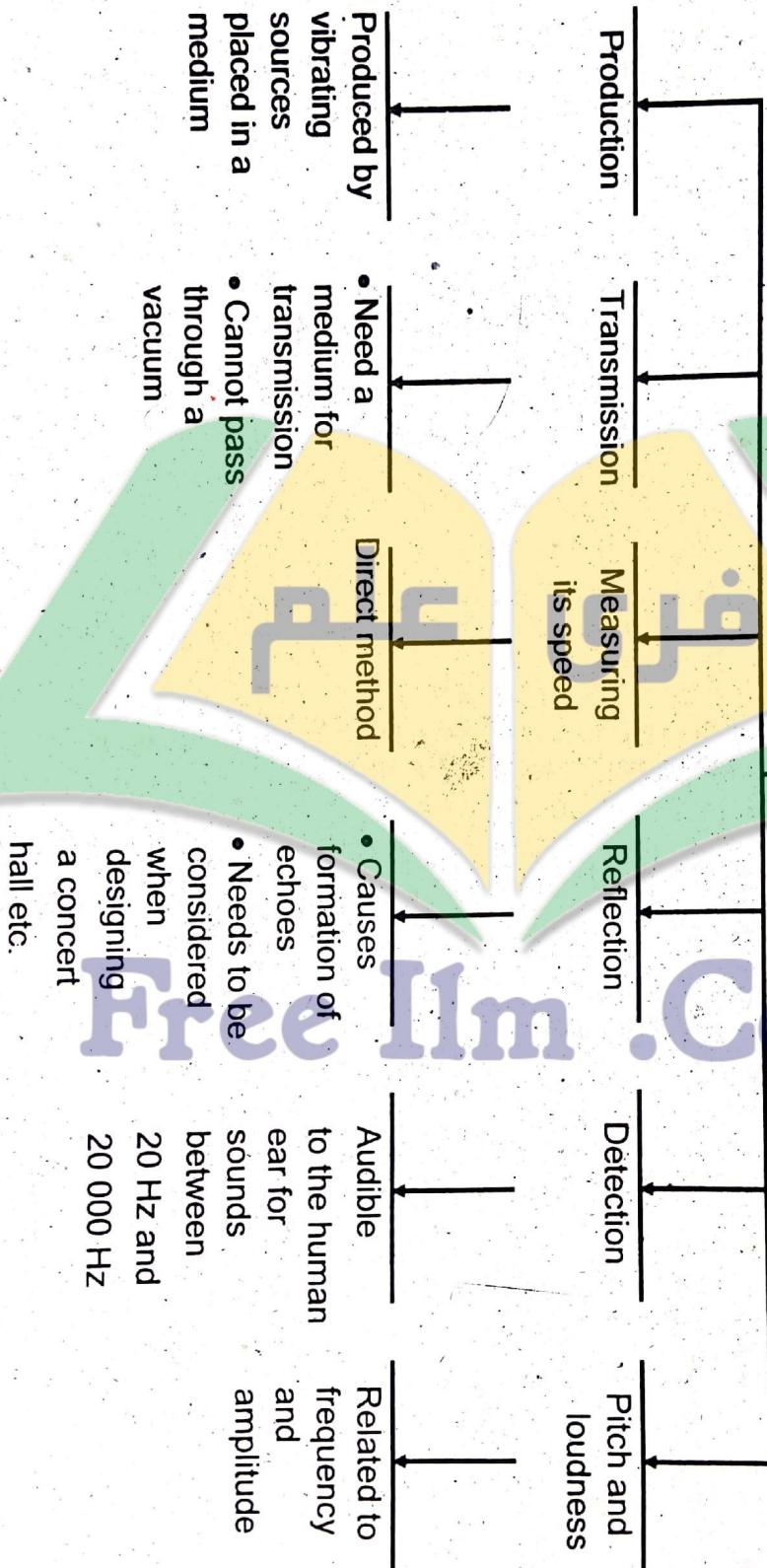


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SOUND

CONCEPT MAP

SOUND



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TOPICAL MULTIPLE CHOICE QUESTIONS

11.1 Sound Waves:

1. The study of sound is called
 - (a) Acoustic
 - (b) Optics
 - (c) Electrostatics
 - (d) All of these
2. Sound is produced by _____.
 - (a) Propagation
 - (b) Vibration
 - (c) Both of these
 - (d) None of these
3. Sound can travel only in presence of
 - (a) Medium
 - (b) vacuum
 - (c) Air
 - (d) Both a and c
4. Sound is _____ Wave
 - (a) Electromagnetic
 - (b) Transverse
 - (c) Longitudinal
 - (d) None of these

11.2 Characteristics of Sound:

5. Characteristic by which We can distinguish between two sounds of same loudness and pitch is called _____.
 - (a) Loudness
 - (b) Pitch
 - (c) Quality
 - (d) intensity of sound
6. Pitch of sound depends on
 - (a) Amplitude
 - (b) Frequency
 - (c) Time period
 - (d) Displacement
7. Distance between two consecutive compressions and rarefactions is the _____ of sound wave.
 - (a) Amplitude
 - (b) Frequency
 - (c) Wave Length
 - (d) none of these
8. Loudness of sound depends on
 - (a) Amplitude of vibrating body
 - (b) Area of vibrating body
 - (c) Distance of vibrating body
 - (d) All of these
9. _____ is the characteristic of sound by which we can distinguish between a shrill and a grave sound.
 - (a) Pitch
 - (b) loudness
 - (c) Intensity
 - (d) Quality
10. Frequency of silent whistle Lies between _____.
 - (a) 20,000Hz - 25,000Hz
 - (b) 20,000Hz - 35,000Hz
 - (c) 20Hz - 20,000Hz
 - (d) 15,000Hz - 40,000Hz
11. The intensity of sound depends on the _____ of sound.
 - (a) Time period
 - (b) frequency
 - (c) Amplitude
 - (d) None of these
12. Intensity is a _____ quantity.
 - (a) Vector
 - (b) Scalar
 - (c) Physical quantity
 - (d) None of these
13. Intensity of faintest sound is
 - (a) 10^{12} Wm^{-2}
 - (b) 10^{-12} Wm^{-2}
 - (c) 10^{-8} Wm^{-2}
 - (d) 10^{-9} Wm^{-2}



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14. Intensity of loudest audible sound is _____.
 (a) 10^{-12} Wm^{-2} (b) 1 Wm^{-2} (c) 20 Wm^{-2} (d) All of these
15. Intensity of whispering
 (a) 10^{-5} Wm^{-2} (b) 10^{-8} Wm^{-2} (c) 10^{-9} Wm^{-2} (d) 10^{-12} Wm^{-2}
16. The loudness of sound is directly proportional to logarithm of intensity, this Law is called _____.
 (a) Weber Fechner Law (b) Law of Gravitation
 (c) Intensity Level (d) Echo
17. Voice of Child is _____.
 (a) Grave (b) Shrill (c) Faint (d) Loud
18. 1 bell is equal to
 (a) 20dB (b) 10dB (c) 100dB (d) 50dB
19. The amplitude of 100 dB sound is _____.
 (a) 1000 (b) 10,000 (c) 100,000 (d) 1001000
20. By using an _____ we can see sound wave.
 (a) Electroscope (b) Stroboscope (c) Gastroscope (d) Oscilloscope
- 11.3 Reflection (ECHO) of Sound:**
21. Echo of sound is
 (a) Refraction (b) Reflection (c) Diffraction (d) Interference
22. The sensation of sound persists in our brain about _____.
 (a) 1s (b) 0.1s (c) 0.01s (d) 2s
23. For hearing distinct echoes, the minimum distance of obstacle from source of source of sound must be
 (a) 34m (b) 17m (c) 38m (d) 16m

11.4 Speed of Sound:

24. The speed of sound in solid is about _____ times that in gases.
 (a) 5 (b) 15 (c) 20 (d) 10
25. The speed of sound in air at a2 atm pressure and at room temperature (21°C) is
 (a) 320 ms^{-1} (b) 360 m/s (c) 343 ms^{-1} (d) None of these
26. The speed of sound varies with _____.
 (a) Temperature (b) Humidity (c) both a and b (d) None of these
27. The speed of sound in solid is _____ than liquid and air
 (a) Greater (b) Smaller (c) Equal (d) None of these
28. Bats can hear Frequencies up to 120,000Hz
 (a) 10,000Hz (b) 120,000Hz (c) 12,00,000Hz (d) 120,00,000Hz

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29. Mice can hear frequencies up to _____
 (a) 35,00Hz (b) 35,000Hz (c) 45,00Hz (d) 100,000 Hz
30. Compressions are places Where air is slightly _____ than the surrounding air
 (a) Less (b) Higher (c) Equal (d) None of these
31. Rarefactions are places where air is slightly _____ than the surrounding air
 (a) Less (b) Higher (c) Equal (d) None of these
32. The speed of sound in air was first accurately measured in _____
 (a) 1838 (b) 1738 (c) 1638 (d) 1938

11.5 Noise Pollution:

33. Such sound Which are pleasant to our ears are called _____
 (a) Musical Sound (b) Noise (c) Both a and b (d) None of these
34. Such sounds which are unpleasant to our ears are called _____.
 (a) Musical Sound (b) Noise (c) Both a and b (d) None of these
35. Corresponds to irregular and sudden vibrations produced by some sound
 (a) Noise (b) Musical Sound (c) Notes of tuning fork (d) None of these
36. The Level of noise recommended in most of countries is _____
 (a) 75-80dB (b) 85-90dB (c) 95-100dB (d) 115-120dB
37. The method used to absorb undesirable sound by soft and porous surface is called
 (a) Acoustics (b) Echos (c) Intensity (d) Pitch
38. Multiple reflections called
 (a) Acoustics (b) reverberations (c) Vibration (d) All of these
39. We hear sound produce by musical instrument such as
 (a) Flute (b) Violin (c) Harmonic (d) All of these
40. For a normal person audible frequency range for sound wave lie between
 (a) 10th and 10 KHz (b) 20 Hz and 20KHz (c) 25Hz and 25 KHz (d) 30Hz and 30 KHz
41. Noise correspond _____ vibration
 (a) Irregular (b) Sudden (c) Both 'a' and 'b' (d) Slowly slowly
42. Noise has negative effects on human health it cause except
 (a) Aggression (b) Hypertension (c) High stress level (d) Fever/flue
43. Which are the acoustic protection except
 (a) Lecture Halls (b) Auditorium (c) Theater halls (d) Kitchen

11.6 Audible Frequency Range:

44. Audible frequency range is
 (a) 200Hz-2000Hz (b) 15Hz-15000Hz (c) 20Hz-20KHz (d) 20Hz-15000Hz
45. Old people cannot hear sound even above
 (a) 20, 00Hz (b) 15 KHz (c) 15,000 Hz (d) Both (b) and (c)
46. Which bird fly easily between wires in the black room
 (a) Sparrow (b) Bat (c) Cow (d) Parrot
47. The range of the frequency which human, ear can hear is called
 (a) Audible frequency range (b) Ultrasonic waves
 (c) Transonic waves (d) None of these

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11.7 - Ultrasound:

48. Ultrasonics are used to measure the depth of Water by
 (a) Acoustics (b) Echo Method (c) Sound Level (d) Diffraction
49. Waves carry more energy and higher frequency than sound waves
 (a) Ultrasonics (b) Infrasonic (c) Audible sound (d) All of these
50. Ultrasonics are used to locate under-water depth the technique is called
 (a) Acoustics (b) Reverb ration (c) Sonar (d) Infrasonics
51. Sound waves with frequency less than 20Hz are called _____.
 (a) Ultra sonic (b) Infrasonics (c) Notes (d) Acoustic
52. Ultrasound is the frequency of sound higher than
 (a) 20Hz (b) 20KHz (c) 15,000 Hz (d) 25,000 Hz
53. Infrasonic is the frequency of sound less than
 (a) 20Hz (b) 20 KHz (c) 15,000 Hz (d) 25,000 Hz
54. According to wave equation $v = f\lambda$ the wavelength of ultra sonic waves are
 (a) Very small (b) Very big (c) Both "a" and "b" (d) None of these
55. Powerful ultrasound is now being used to remove blood clot from
 (a) Capillaries (b) Arteries (c) Convoluted tubule (d) None of these
56. By which waves small cracks can appear
 (a) Ultrasonics (b) Infrasonic (c) NOTSE (d) Sound frequency
57. By ultrasonic waves are destroyed
 (a) Germs (b) Bacteria (c) Fungus (d) Both "a" and "b"
58. When the frequency of a sound wave is increased which of following decrease
 (a) Wave length (b) Period (c) Amplitude (d) Both a and b
59. Bats can hear frequency up to
 (a) 120, 000Hz (b) 2,000 Hz (c) 20, 000 Hz (d) 15,000 Hz
60. Researcher in _____ observed giraffes to stop and wait for the others that were out of sight
 (a) 1898 (b) 1993 (c) 2013 (d) None of these

ANSWER KEY

Q.	Ans										
1	a	11	d	21	b	31	a	41	c	51	b
2	b	12	c	22	b	32	b	42	d	52	b
3	d	13	b	23	b	33	a	43	d	53	a
4	c	14	b	24	b	34	b	44	c	54	a
5	c	15	c	25	c	35	a	45	c	55	b
6	b	16	a	26	c	36	b	46	b	56	a
7	c	17	b	27	a	37	a	47	a	57	d
8	d	18	b	28	b	38	b	48	b	58	d
9	a	19	c	29	d	39	d	49	a	59	a
10	a	20	d	30	b	40	b	50	c	60	b