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Chapter-04

Sound

- 1. The velocity of sound in moist air is more than in dry air because the moist air has -
- (A) Less pressure than dry air
- (B) More density than dry air
- (C) Less density than dry air
- (D) More pressure than dry air
- 2.Hertz is the unit of.......
- (A) Frequency
- (B) Wavelength
- (C) Intensity
- (D) Clarity of waves
- 3. The Unit of noise pollution (level) is-
- (A) Decibel
- (B) Decimal
- (C) Ppm
- (D) None of the above
- 4. What is Decibel?
- (A) A musical instrument
- (B) Wavelength of noise
- (C) A musical note
- (D)Scale of sound level
- 5. The Permissible noise level at residential area during day time is....

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- (A) 45 dB
- (B) 55 dB
- (C) 75 dB
- (D) 80 dB
- 6. The range of frequency of ultrasonic wave.
- (A) Greater than 20 KHz
- (B) Greater than 20,000 KHz
- (C)Below than 20 KHz
- (D) Greater than 02 KHz
- 7.In which of the following frequency Range, Human ear feels the sensitivity of vibration of sound?
- (A) 0 5 Hz
- (B) 6 10 Hz
- (C) 11 15 Hz
- (D) 20 20,000 Hz
- 8.If the ratio of intensity of wave is 25:9. What is the ratio of their amplitude?
- (A) 50:18
- (B) 5:3
- (C) 3:5
- (D) 25:9
- 9. Supersonic air plane creates a shock wave called -
- (A) Transition wave
- (B) Ultrasound wave

- (C) Sonic Boom
- (D) Transverse
- 10. Which of the following does not have any effect on velocity of sound?
- (A) Pressure
- (B) Temperature
- (C) Humidity
- (D) Density
- 11. Sound cannot pass through-
- (A) Water
- (B) Steel
- (C) Air
- (D) Vacuum
- 12.In which of the following speed of sound is maximum?
- (A) Steel
- (B) Air
- (C) Vacuum
- (D) Water
- 13.In which of the following medium speed of sound will be comparatively high?
- (A) Carbon dioxide
- (B) Iron Rod
- (C) Steam
- (D) Water
- 14. Pitch of a sound depends upon its -
- (A) Frequency
- (B) Intensity
- (C) Velocity
- (D) Amplitude
- 15. Which of the following character of sound wave change with the change in temperature in atmosphere.
- (A) Frequency
- (B) Amplitude
- (C) Wavelength (D) Intensity
- 16. Which phenomenon do bat or dolphins used to find prey, predators or obstacles?
- (A) Refraction of sound
- (B) Formation of beats
- (C) Scattering of sound
- (D)Echolocation
- 17. When a vibrating tuning fork is placed on table, a loud sound is heard. This is due to -
- (A) Reflection
- (B) Refraction
- (C)Forced vibration
- (D) Damped vibration
- 18. Sound waves do not exhibit the phenomenon of
- (A)Interference
- (B)Diffraction
- (C)Refraction
- (D) Polarisation
- 19. Sound waves cannot be polarised because they
- (A) Require a material medium for propagation
- (B) Are longitudinal

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(C) Are tranverse

(D) Have low velocity

20. The velocity of sound in a gas depends on

(A) Wavelength only

(B) Density and elasticity of gas

(C) Intensity only

(D) Amplitude and frequency

21. When we hear a sound, we can identify its source from

(A) Wavelength of sound

(B) The overtones present in the sound

(C) The intensity of sound

(D) The amplitude of sound

22. Which of the following type of waves is different from others?

(A) Light waves

(B) X-rays

(C) Radio waves

(D) Sound waves

23.Quality is that sensation of sound which is felt by our

ears by virtue of

(A) Waveform of sound wave

(B) Frequency of sound wave

(C) Amplitude of sound wave

(D) None of these

24.Beats occur because of

(A) Interference

(B) Reflection

(C) Refraction

(D) Doppler effect

25. The loudness of sound depends upon

(A) Velocity

(B) Pitch

(C) Amplitude

(D) Wavelength

26.Pitch is sensation which depends upon

(A) Frequency

(B) Amplitude

(C) Wavelength

(D)Velocity

27. The quality of sound produced by an instrument

depends on the

(A) Frequency

(B) Intensity

(C) Number of overtones

(D) None of these

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28. Sound waves of wavelength greater than that of

audible sound are called.

(A)Infrasonic waves

(B) Ultrasonic wave

(C) Sonic wave

(D) Seismic waves

29.If a sound travels from air to water, the quantity that remain unchanged is

(A) Velocity

(B) Frequency

(C) Wavelength

(D) Amplitude

30.Ultrasonic waves can be detected by

(A) Telephone

(B) Hebb's method

(C) Kundt's tube

(D) Quincke's tube

31. The waves used in sonography are-

(A) Micro waves

(B) Infra-red waves

(C) Sound waves

(D) Ultrasonic waves

32. Echo is produced due to

(A) Reflection of sound

(B) Refraction of sound

(C) Resonance

(D) None of these

33.SONAR is based on the principle of

(A)Echo

(B) Resonance

(C) Reverberation

(D) None of these

34.Instrument used to study the behaviour of a vibrating string is:

(A) Hygrometer

(B) Sonometer

(C) Barometer

(D) Hydrometer

35. Sound travels fastest in

(A) Steel

(B) Air

(C) Water

(D) Vacuum

36. Speed of sound in a gas is proportional to

(A) Square root of isothermal elasticity

(B) Square root of adiabatic elasticity

(C) Isothermal elasticity

(D) Adiabatic elasticity

37. The Doppler's effect is applicable for

(A) Light wave

(B) Sound wave

(C) Space wave

(D) Both (A) and (B)

38. Which one of the following animals can hear ultrasonic

sound?

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(A) Rat

(B) Squirrel

(C) Cat

(D) Bat

39. Submerged objects can be located using

(A) Radar

(B) Sonar

(C) Quasar

(D) Pulsar

40. Velocity of sound in air does not change with the change of

(A) Temperature of air

(B) Pressure of air

(C) Moisture content in air

(D) Wind in the direction of propagation of sound

41. The frequency of ultrasound wave is typically

(A) Above 20,000 KHz

(B) Above 20 KHz

(C) Below 02 KHz

(D) Below 2000 KHz

42. The velocity of sound in air(SSC CPO S.I 2010)

(A) Decreases with increase of temperature

(B) Increase with decrease of temperature

(C) Does not depend on temperature

(D) Decreases with decrease in temperature

Exp: The velocity of sound increases with increase in temperature of medium or vice versa as V

43. The device which converts sound energy into electrical

energy is called

(A)Amplifier (B) Speaker

(C) Microphone

(D) Transmitter

44.Least aduible sound for most of the human ear is:

(A) 10.0 bar

(B) 0.0002 bar

(C) 0.005 bar

(D) 5.0 bar

45. The ordinary and maximum tolerance limit of sound by human being is

(A) 50 dB to 70 dB (decibel)

(B) 60 dB to 80 dB (decibel)

(C) 65 dB to 75 dB (decibel)

(D) 70 dB to 85 dB (decibel)

46. Sound is heard over longer distances on rainy days because (SSC CGL Tier-I 2015)

(A) Sound travels slowly in moist air

(B) Sound travels faster in moist air

(C) Moist air does not absorb sound

(D) Moist air absorbs sound

47. Which of the following property of sound is affected by change in air temperature

(A) Frequency

(B)Intensity

(C) Amplitude

(D) Wavelength

48.A person standing on a railway platform listens to the whistles of arriving and departing trains.

(A) The same in both cases in all respects

(B) Of higher intensity when train arrives

(C) Of higher pitch when train arrives

(D) Of higher pitch when train departs

49. Which term is not associated with sound wave?

(A) Hertz

(B) Decibel

(C) Candela

(D) Mach

50.If density of oxygen is 16 times that of hydrogen. What will be their corresponding ratio of velocity of sound?

(A) 4:1

(B) 2:1

(C) 1:16

(D) 1:4

51.Conversion of sound energy into electrical energy is done by

(A) Solar cell

(B) Gramophone

(C) Microphone

(D) Loud speaker

52.A bomb explodes on the moon. You will hear its sound on earth after ___

(A) 20 minutes

(B) 2 hours 20 minutes

(C)3.7 hours

(D) You cannot hear the sound of explosion

53.Bats can sense obstacles because they produce

(A) Supersonic sound waves

(B) Ultrasonic sound waves

(C) Infrasonic sound waves

(D) Micro sound waves

54.Quality of a musical note depends on

(A) Fundamental frequency

(B) Amplitude of the wave

(C) Harmonics present

(D) Velocity of sound in the medium

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55. Which of the following is the unit of perceived loudness of sound?	(A) Amplitude (C) Loudness		requency /avelength	
(A) Decibel (B) Sone (C) Hertz (D) Phon	65.What is the SI unit of frequency?			
56.Hydroscope is an instrument that shows changes in (A) Sound under water	(A) Newton (C) Farad	(B) Watt (D) Hertz		
(A) Sound under water (B) Atmospheric humidity (C) Density of liquid	66.Who pioneered diagnostic ultrasound? (A) Alexander Fleming (B) Ian Donald			
(D) Elevation of land	(C) A. Laveran		(D) Rober	
57.The SI unit of intensity of sound is (A)Watt per square meter (B)Joule per square meter (C)Newton per square meter (D)Tesla per square meter	67. What is the (A) Decibel (C) Heartz	SI unit of intens (B) Newton (D) Tesla	ity of sound?	
58.Women have shrill voice because of (A) Low frequency (B) High frequency (C) Shrill vocals (D) Strong epiglottis		٥,	-	
59.The instrument used to study the laws of vibrating string is (A) Hydrometer (C) Sphygmomanometer (B) Sonometer (D) Electrometer) र ।	h	Q	
60.In fluid mechanics, Mach number is 1, if the speed of an object is equal to the? (A) Speed of light (B) Rotational speed of sun (C) Speed of sound (D) Speed of revolution of earth around the sun	India Pi	rivate I	Limite	ed
61.What is the unit of frequency? (A) Decibel (B) Watt (C) Hertz (D) Newton				
62.Sounds of frequencies below 20 Hz are called (A) Infrasonic sound (B) Ultrasonic sound (C) Intrasonic sound (D) Reflected sound				
63. What is the minimum distance (in metres) required to hear an echo?				
(A) 10 (B) 13 (C) 17 (D) 21				

sound?

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64. Which among the following determines the pitch of a

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