Sound and Wave

1. Which part of human ear converts sound vibrations into electrical signals a)Hammer b)Stirrup c)Tympanic membrane d)Cochlea 2. What do dolphins, bats and porpoise use a)Ultrasound b)Infrasound c)Both a and b d)None of them 3. Children under the age of 5 can hear upto a)25 Hz b)25k Hz c)20 Hz d)25 kHz 4. Reverberation of sound is used in a)Stethoscope b)Trumpets c)Megaphone d)All of these 5. To hear a distinct echo each time interval between the original sound and the reflected sound must be: a)0.2 s b)1s c)2s d)0.1 s6. Speed (v) abs wavelength (λ) and the frequency (v) of sound are related as a) $\lambda = v X v$ b) $v = \lambda X v$ c) $v = \lambda X v$ $d)v = \lambda / v$ 7. Speed of sound depends upon a)Temperature of the medium b)Pressure of the medium c)Temperature of source producing sound d)Temperature and pressure of medium

 8. Which characteristic is this? We can distinguish between sound having same pitch and loudness. a)Tone b)Note c)Pitch d)Timber
 Loud sound can travel a larger distance, due to a)Higher amplitude b)Higher energy c)High frequency d)High speed
10. A wave in slinky travelled two and fro in 5 sec the length of the slinky is 5m. What is the velocity of wave? a)10m.s b)5m/s c)2m/s d)25m/s
 11. A man standing in between two parallel cliffs, he produces a sound and first echo is heard from cliff-2 after 2 seconds and second echo is heard from cliff-1 after 3 seconds. If the speed of sound in air 340 m/s. Find the distance between two cliffs. a) 425 m b) 170 m c) 850 m d) 340 m
 12. For a sound wave, frequency is 8800 Hz and speed is 352 m/s in a given medium. The wavelength of the wave is: a) 0.4 m b) 0.03 m c) 0.25 m d) 0.04 m
13. In medium, the nature of sound waves isa) only transverseb) both longitudinal and transversec) neither longitudinal nor transversed) only longitudinal
14. Which of the following term is responsible for the distance between two successive compressions of a Sound Waye?

a) Wave Number

b) Frequencyc) Amplitude

d) Wave Length
15. The pitch of the sound is related to:a) Frequencyb) Intensityc) Amplituded) Loudness
16. What kind of sound waves does the earthquake produce before the main shocks?a) Ultrasonics Sound Wavesb) Natural Sound Wavesc) Infra Sonics Sound Wavesd) None of the above
17. Audible range for adult human beings is: a) Less than 20 Hz b) 20 to 20,000 Hz c) 21,000 to 50,000 Hz d) 100 to 120 kHz
18. In which medium the speed of sound will be maximum?a) Waterb) Copperc) Steeld) Aluminium
 19. In music, the term 'note' is generally used to represent a) The relative duration and pitch of a sound. b) The loudness and softness of a sound. c) The interval frequency between two sounds. d) A style or school of music.
 20. Loudness of sound varies directly with vibrating body's a) Amplitude b) Pitch c) Frequency d) None of these
 21. Which of the following term defined SONAR? a) Sound Nautical Ranging b) Sound Navigation and Ranging c) Super Nautical Range d) Sound Navigate Ray

Answers Key

1. D 2. A 3. B 4. D 5. D 6. C 7. A 8. D 9. B 10. C

11. C 12. D 13. D 14. D 15. A 16. C 17. B 18. D 19. A 20. A

21. B