11. According to Newton sound travel in air under the conditions of

A. adiabatic
B. isothermal
C. isobaric
D. isochoric

Answer: Option c

12. Sound waves do not travel in vacuum because

A. they are transverse waves
B. they are stationary waves
C. they require material medium for propagation
D. they do not have enough energy

Answer: Option c

13. Velocity of sound in vacuum is

A. 332 ms-1
B. 320 ms-1
C. Zero
D. 224 ms-1

Answer: Option c

14. Increase in velocity of sound in the air for 1 ?C rise in temperature is

A. 1.61 ms-1
B. 61.0 ms-1
C. 0.61 ms-1
D. 2.00 ms-1

Answer: Option c

15. The velocity of sound is greatest in

A. Water
B. air
C. copper
D. ammonia

Answer: Option c

16. On loading the prong of a tuning form with wax its frequency

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A. increases
B. decreases
C. remains unchanged
D. may increase or decrease

Answer: Option B

17. The velocity of sound in air would become double than its velocity at 0?C at temperature

A. 313?C
B. 586?C
C. 819?C
D. 1172?C

Answer: Option C

18. The normal ear is the most sensitive in the frequency range

A. 20000 to 30000 hertz
B. 10 to 20 hertz
C. 2000 to 4000 hertz
D. 6000 to 8000 hertz

Answer: Option C

19. Ultrasonic have

A. frequency in the audible range
B. frequency is greater than 20 kHz
C. frequency lower than 20 Hz
D. all of above

Answer: Option B

20. The periodic alternation of sound between maximum and minimum loudness are called

A. silence zone
B. interference
C. beats
D. resonance

Answer: Option C

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