

I. Choose the correct answer. (10 × 1 = 10)

- Sound waves travel very fast in _____.
a) Air b) Metals c) vacuum d) Liquids
- The range of audible frequency for the human ear is _____.
a) 20Hz to 2000 Hz b) 20 Hz to 20,000 Hz
c) 200 Hz to 2000 Hz d) 200 Hz to 20000 Hz
- What kind of Musical instrument is a sitar? _____.
a) String instrument b) Percussion instrument
c) Wind instrument d) None of these
- Acids are _____ in taste.
a) Sour b) Sweet c) Bitter d) Salty
- In acidic solutions blue litmus changes into _____ Colour.
a) Blue b) Green c) Red d) White
- Base is a substance that gives _____ on dissolving in water.
a) OH⁻ b) H⁺ c) OH d) H
- Acid mixed with base forms _____.
a) Salt and water b) Salt c) Water d) No reaction
- Red ant sting contains _____.
a) Acetic acid b) Sulphuric acid c) Oxalic acid d) Formic acid
- Find the odd one out _____.
a) Harmonium b) Flute c) Nadaswaram d) Violin
- _____ acid is present in our stomach which helps in digestion of food stuff.
a) Sulphuric acid b) Hydrochloric acid c) Nitric acid d) Acetic acid

II. Fill in the blanks. (8 × 1 = 8)

- The Vibration of a Simple Pendulum are also known as _____.
- Sound is produced by _____.
- High frequency sounds that cannot be heard by you are called _____.
- Bases are _____ in taste.
- Turmeric is used as an _____.
- The World Sour refers to _____ in Latin.
- Pitch of a sound depends on the _____ of Vibration.
- Any sound that is unpleasant to the ear is called _____ pollution.

III. Match the following. (6 × 1 = 6)

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|---------------------------|--------------------------------|
| 19. Speed of sound in air | - Frequency more than 20000 Hz |
| 20. Infrasonics | - Phenolphthalein |
| 21. Sound Propagation | - Frequency below 20 Hz |
| 22. Ultra Sonics | - Turmeric |
| 23. Natural Indicator | - Needs Material Medium |
| 24. Synthetic Indicator | - 330 m |

IV. State True or False. (7 × 1 = 7)

- Acids are sour in taste.
- Most of the acids are not soluble in water.
- Acids are corrosive in nature.
- Sudden Exposure to louder noise may cause a heart attack and unconsciousness.
- A sound with a frequency greater than 20,000 Hz is called as ultrasonic sound.
- Hibiscus Flower is an example for natural indicator.
- Bases are soapy to touch when they are dry.

V. Reason and Assertion. (1 × 2 = 2)

- Assertion : When lightning strikes, the sound is heard a little after the flash is seen.
Reason : The Velocity of light is greater than that of the Sound.
Option (A) : Both assertion and reason are true and reason is the correct explanation of assertion.
Option (B) : Both assertion and reason are true but reason is not the correct explanation of assertion.
Option (C) : Assertion is true but reason is False.
Option (D) : Assertion is False but reason is True.

VI. Give short answers: (Any 11) (11 × 2 = 22)

- Question No : 46 is Compulsory.
- Give an example to show that light travels Faster than Sound?
 - To increase loudness of sound by Four times, how much should the amplitude of Vibrations be changed?
 - What is Vibration?
 - Define acid.
 - Write any Four Physical Properties of acids.
 - State the difference between acids and bases.
 - What is Ultrasonic Sound?
 - Give two differences between Music and Noise.
 - What are the hazards of noise pollution?
 - How does planting tree help in reducing noise pollution?
 - Write any four physical properties of base.
 - What is neutralization reaction?
 - Write the three types of sound.
 - Write few indicators which is used in our daily life.
 - Mention few measures to be taken to reduce the effect of noise pollution.

VII. Answer the following in detail : (Any 4) (4 × 5 = 20)

- Describe an experiment to show that sound cannot travel through Vacuum.
- What are the uses of acids?
- What are the properties of sound?
- What are the used of bases?
- What steps should be taken to reduce the effect of Noise Pollution.
- What is indicators? Explain anyone of the indicators.

