

8th Science 3rd Term Book Back Questions in English**[New Book]****1. Sound****I. Choose the Correct Answer**

1. Sound waves travel very fast in
 - a) air
 - b) **metals**
 - c) vacuum
 - d) liquids
2. Which of the following are the characteristics of vibrations?
 - i. Frequency
 - ii. Time period
 - iii. Pitch
 - iv. Loudness
 - a) **i and ii**
 - b) ii and iii
 - c) iii and iv
 - d) i and iv
3. The amplitude of the sound wave decides its
 - a) speed
 - b) pitch
 - c) **loudness**
 - d) frequency
4. What kind of musical instrument is a sitar?
 - a) **String instrument**
 - b) Percussion instrument
 - c) Wind instrument
 - d) None of these
5. Find the odd one out.
 - a) Harmonium
 - b) Flute
 - c) **Nadaswaram**
 - d) Violin
6. Noise is produced by
 - a) vibrations with high frequency.
 - b) regular vibrations.
 - c) regular and periodic vibrations.
 - d) **irregular and non-periodic vibrations.**
7. The range of audible frequency for the human ear is
 - a) 2 Hz to 2000 Hz
 - b) 20 Hz to 2000 Hz
 - c) **20 Hz to 20000 Hz**
 - d) 200 Hz to 20000 Hz
8. If the amplitude and frequency of a sound wave are increased, which of the following is true?
 - a) **Loudness increases and pitch is higher.**
 - b) Loudness increases and pitch is unchanged.
 - c) Loudness increases and pitch is lower.
 - d) Loudness decreases and pitch is lower.

II. Fill in the blanks:

1. Sound is produced by **vibration of the particle.**
2. The vibrations of a simple pendulum are also known as **oscillation.**
3. Sound travels in the form of **waves.**
4. High frequency sounds that cannot be heard by you are called **Ultrasonic sound.**
5. Pitch of a sound depends on the **frequency** vibration.
6. If the thickness of a vibrating string is increased, its pitch **will be decreased.**

III. Match the following

1. Ultrasonics - Frequency below 20Hz
2. Speed of sound in air - Needs material medium
3. Infrasonics - 330m

4. Sound propagation - Frequency more than 20000 Hz

ANSWER: 4,3,1,2

IV. Choose the correct option.

- A. Both assertion and reason are true and reason is the correct explanation of assertion.
 B. Both assertion and reason are true but reason is not the correct explanation of assertion.
 C. Assertion is true but reason is false.
 D. Assertion is false but reason is true.
 E. Both Assertion and reason are false.

1. 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.

ANSWER: A. Both assertion and reason are true and reason is the correct explanation of assertion.

2. Assertion: Two persons on the surface of moon cannot talk to each other.

Reason: There is no atmosphere on moon.

ANSWER: A. Both assertion and reason are true and reason is the correct explanation of assertion.

2. Magnetism

I. Choose the correct answer

1. A magnet attracts _____.
- | | |
|---------------------|--------------------------|
| a) wooden materials | b) any metal |
| c) copper | d) iron and steel |
2. One of the following is an example for a permanent magnet.
- | | |
|------------------|---------------------|
| a) Electromagnet | b) Mumetal |
| c) Soft iron | d) Neodymium |
3. The south pole of a bar magnet and the north pole of a U-shaped magnet will _____.
- | | |
|---|----------------------|
| a) attract each other | b) repel each other |
| c) neither attract nor repel each other | d) None of the above |
4. The shape of the Earth's magnetic field resembles that of an imaginary _____.
- | | |
|--------------------|--|
| a) U-shaped magnet | b) straight conductor carrying current |
| c) solenoid coil | d) bar magnet |
5. MRI stands for _____.
- | | |
|--------------------------------------|---------------------------|
| a) Magnetic Resonance Imaging | b) Magnetic Running Image |
| c) Magnetic Radio Imaging | d) Magnetic Radar Imaging |
6. A compass is used for _____.
- | | |
|----------------------------|--------------------------------|
| a) plotting magnetic lines | b) detection of magnetic field |
| c) navigation | d) All of these |

II. Fill in the blanks.

1. The magnetic strength is **maximum** at the poles.
 2. A magnet has **two** magnetic poles.
 3. Magnets are used in **dynamoes** for generating electricity.
 4. **Magnet** are used to lift heavy iron pieces.
 5. A freely suspended bar magnet is always pointing along the **geographic** north-south direction.

III Match the following

- | | | |
|--------------------------|---|------------------------|
| 1. Magnetite | - | Magnetic lines |
| 2. A tiny pivoted magnet | - | Natural magnet |
| 3. Cobalt | - | Compass box |
| 4. Closed curves | - | Ferromagnetic material |
| 5. Bismuth | - | Diamagnetic Material |

ANSWER: 2,3,4,1,5

IV Choose the correct answer:

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
 B. If both assertion and reason are true, but the reason is not the correct explanation of the assertion.
 C. If the assertion is true, but the reason is false.
 D. If the assertion is false, but the reason is true.

1. Assertion: Iron filings are concentrated more at the magnetic poles.
 Reason: The magnets are so sharp.

ANSWER: C. If the assertion is true, but the reason is false.

2. Assertion: The Earth's magnetic field is due to iron present in its core.
 Reason: At a high temperature a magnet loses its magnetic property or magnetism.

ANSWER: B. If both assertion and reason are true, but the reason is not the correct explanation of the assertion.

3. Universe And Space Science

I. Choose the correct answer:

1. Which of the following is a celestial body?

a) Sun	b) Moon
c) Stars	d) All the above
2. Mangalyaan was sent to _____

a) Moon	b) Mars
c) Venus	d) Mercury
3. Chandrayaan - 1 was launched on

a) 22nd October 2008	b) 8th November 2008
c) 22nd July 2019	d) 22nd October 2019
4. _____ is called as Red planet.

a) Mercury	b) Venus
c) Earth	d) Mars
5. Which of the following is the working principle of Rockets?

a) Newton's first law	b) Newton's second law
c) Newton's third law	d) All the above
6. Cryogenic fuels are stored at

a) room temperature	b) low temperature
c) very low temperature	d) very high temperature
7. _____ was the first manned mission of NASA to go to the moon.

a) Apollo-5	b) Apollo-8
c) Apollo-10	d) Apollo-11

5. Loading speeds up the process of **sedimentation**.

III True or False

1. Sewage should be treated well before being discharged it into water bodies. **True**
2. Sea water is suitable for irrigation as it contains dissolved salts. **False**
3. Excessive use of chemical fertilizers depletes the soil and causes water pollution. **True**
4. Water unfit for drinking is called potable water. **False**
5. Soap lathers well in hard water. **False**

IV Match the following

- | | | |
|----------------------|---|------------------|
| 1. Universal solvent | - | Water pollutant |
| 2. Hard water | - | Kills germs |
| 3. Boiling | - | Ozonisation |
| 4. Sterilization | - | Water |
| 5. Sewage | - | Stomach ailments |

ANSWER: 4,5,2,3,1

5. Acids And Bases

I. Choose the correct answer:

1. Acids are _____ in taste.

a) sour	b) sweet
c) bitter	d) salty
2. Aqueous solutions of _____ conduct electricity.

a) acid	b) base
c) salt	d) salt and base
3. In acidic solutions blue litmus changes into _____ colour.

a) blue	b) green
c) red	d) white
4. Base is a substance that gives _____ on dissolving in water.

a) OH⁻	b) H ⁺	c) OH	d) H
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5. Sodium hydroxide is a _____.

a) acid	b) base
c) oxide	d) alkali
6. Red ant sting contains _____.

a) acetic acid	b) sulphuric acid
c) oxalic acid	d) formic acid
7. Magnesium hydroxides are used for treating _____.

a) acidity	b) head pain
c) teeth decay	d) None of these
8. Acid mixed with base forms _____.

a) salt and water	b) salt
c) water	d) No reaction
9. We brush our teeth with tooth paste because it is _____ in nature.

- a) basic
c) Both a and b
- b) acidic
d) None of these

10. In basic solution turmeric indicator paper changes from yellow to _____

- a) blue
c) yellow
- b) green
d) red

II. Fill in the blanks.

1. Benzoic acids are used for **food preservation**.
2. The word sour refers to **Acidus** in Latin.
3. Bases are **Bitter** in taste.
4. Chemical formula of calcium oxide is **CaO**.
5. Wasp sting contains **alkaline substance**.
6. Turmeric is used as a **indicator**.
7. In acidic solution the colour of the hibiscus indicator paper will change to **deep pink or deep red**.

III. True or False

1. Most of the acids are not soluble in water. **False**
2. Acids are bitter in taste. **False**
3. Bases are soapy to touch when they are dry. **False**
4. Acids are corrosive in nature. **True**
5. All bases are alkalis. **True**
6. Hibiscus flower is an example for natural indicator. **True**

6. Chemistry In Everyday Life

I. Choose the correct answer:

1. The chemical mixed with LPG that helps in the detection of its leakage is _____
a. methanol
c. camphor
b. ethanol
d. mercapton
2. Which is known as syn gas?
a. Marsh gas
c. Producer gas
b. Water gas
d. Coal gas
3. The unit of calorific value of fuel is _____
a. kilo joule per mole
c. kilo joule per kilo gram
b. kilo joule per gram
d. joule per kilo gram
4. _____ is the coal of superior quality.
a. Peat
c. Bituminous
b. Lignite
d. Anthracite
5. The main component of natural gas is _____
a. methane
c. propane
b. ethane
d. butane

II. Fill in the blanks

1. Producer gas is a mixture of **carbon monoxide and nitrogen**.
2. **Methane** is known as marsh gas.
3. The term petroleum means rock oil.

4. Heating coal in the absence of air is called **destructive distillation**.
 5. An example for fossil fuel is **petroleum**.

III. Match the following

- | | | |
|-------------------------|---|------------------|
| 1. Octane rating | - | Diesel |
| 2. Cetane rating | - | Methane |
| 3. Simplest hydrocarbon | - | Petrol |
| 4. Peat | - | Brown in colour |
| 5. Lignite | - | First stage coal |

ANSWER: 3,1,2,5,4

7. Crop Production And Management

I. Choose the best answer

- The process of placing seeds in the soil is called as

a. ploughing	b. sowing
c. crop production	d. crop rotation
- Organism that control insects and pests of plant crops is

a. bio-pesticides	b. bio-fertilizers
c. earthworms	d. neem leaves
- The method in which water flows over the soil surface and allow it to infiltrate is

a. irrigation	b. surface irrigation
c. sprinkler irrigation	d. drip irrigation
- Effective microorganism preparation is not used in

a. seed treatment	b. foliar spray
c. soil treatment	d. bio-predators
- Which of the following is not present in Panchagavya?

a. Cow dung	b. Cow's urine
c. Curd	d. Sugar

II. Fill in the blanks

- The process of actively growing seedling from one place and planting in the main field for further growth is called **transplanting**.
- Weed** is a plant growing in a place where it is not wanted.
- The chemicals used for killing the weeds or inhibiting their growth are called as **herbicide**.
- Heirloom** seeds transfers its unique characteristics to the descents.
- Krishi Vigyan Kendra** centers serve as the ultimate link between ICAR and farmers.
- Several popular high yielding varieties of major crops have been developed by **IARI**.

III. Match the following.

- | | | |
|-------------------|---|-------------------------------|
| 1. Bio-pesticide | - | Nem Leaves |
| 2. Bio-predators | - | <i>Bacillus thuringiensis</i> |
| 3. Bio-fertilizer | - | Control white flies |
| 4. Bio-indicators | - | Improve soil fertility |
| 5. Bio-repellants | - | Quality of environment |

ANSWER: 2,3,4,5,1

- a) 1 **b) 2** c) 3 d) 4

5. The menu used to save the document is

- a) File-> open b) File-> print
c) **File-> save** d) Edit->close

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