

St.Thomas School, Dhurwa, Ranchi- 4

Second Term 2021-2022

Std-4

Subject- Science

Ch 8 Materials and Solutions

Practice Paper -03 (with model answer)

Q1. Give the scientific term for the following.

1. The substance that dissolves in a liquid to form a solution.

**Ans-** Solute.

2. The liquid in which a solute dissolves.

**Ans-** Solvent.

3. A mixture where one substance is dissolved into another.

**Ans-** Solution.

4. When two liquids can be mixed to form a solution.

**Ans-** Miscible.

5. When two liquids cannot be mixed to form a solution.

**Ans-** Immiscible.

6. The process of obtaining pure liquid from a solution.

**Ans-** Distillation.

Q2. Choose the correct options.

1. What happens if you put sand in water?

a. It dissolves in it.

b. It floats on top.

**c. It settles down at the bottom.**

d. None of these.

Ans. c

2. Which of these will dissolve in water?

a. Ink

b. Fruit juices

c. Milk

**d. All of these**

3. Which of these gases is dissolved in water and used by aquatic animals for breathing?

- a. Carbon dioxide.
- b. Hydrogen.
- c. oxygen.**
- d. Nitrogen.

Ans- c

4. In a solution of salt and water, salt is the\_\_\_\_\_.

- a. Solute**
- b. Solvent
- c. Solution
- d. Insoluble substance

5. \_\_\_\_\_ can be used to separate sand from water.

- a. heating
- b. melting.
- c. condensation.
- d. filtration.**

6. Soluble substances can be separated from a solution by\_\_\_\_\_.

- a. Decantation.
- b. Sedimentation.
- c. Filtration.
- d. Evaporation.**

Ans-d

7. Insoluble substances can be removed from a solution by a. Sedimentation.

- b. Filtration.
- c. Both a and b.**
- d. None of these.

8. \_\_\_\_\_ do not dissolve in water.

- a. Insoluble substances**
- b. Soluble substances.
- c. Solvents.
- d. Solutes.

Ans a

9. What do we call the substance that dissolves in a liquid?

- a. Solution    b. Solvent    **c. Solute**    d. Mud

Ans c

10. Which of the following is immiscible in water?

- a. Milk    b. Ink    C. Oil    d. Fruit juices

Ans c

Q3. Give two examples of each.

a) Solids which are soluble in water.

1. Salt    2. Sugar

b) Liquids which are soluble in water.

1. Milk    2. Ink

c) Solvent other than water.

1. Kerosene    2. Petrol

d) Solution that we drink.

1. Tea    2. Coffee

e) Miscible liquids.

1. Water and milk  
2. Turpentine and oil paint.

f) Immiscible liquids.

1. Coconut oil and water  
2. Petrol and water

Q4. Differentiate between the following.

a) Soluble substances Insoluble substances

1. Substances that can dissolve in a liquid are called soluble substances. Eg salt, sugar, coffee

1. Substances that do not dissolve in a solvent (liquid) to form a solution are called insoluble substances.

