

A. Case study practice.

Raman, a curious student of Class V, conducted an experiment in his school lab to explore the concept of solubility. He took two separate containers, one filled with sand and the other with sugar. He then added water to both containers, carefully observing what happened next. Raman noticed that the sugar quickly dissolved in the water, forming a clear solution. However, the sand remained undissolved, settling at the bottom of the container. Through this simple experiment, Raman learned that different substances have different solubility properties in water.

MCQs:

1. What was Raman trying to explore in his experiment?

- a) The color of water
- b) The weight of substances
- c) The solubility of substances
- d) The temperature of water

2. What happened when Raman added water to the sugar?

- a) The sugar turned into sand
- b) The sugar dissolved in water
- c) The sugar floated on the water
- d) The sugar did not change

3. What did Raman observe when he added water to the sand?

- a) The sand dissolved in water
- b) The sand floated on the water
- c) The sand remained undissolved
- d) The sand changed color

4. What can be concluded from Raman's experiment?

- a) Sand is insoluble in water

- b) Sugar is soluble in water
- c) Both sand and sugar are equally soluble in water
- d) Neither sand nor sugar is soluble in water

5. Why did the sand settle at the bottom of the container?

- a) It is heavier than water
- b) It dissolved completely
- c) It evaporated
- d) It changed into sugar

B. Choose the correct option-

1. Sohan is watching the sunrise. He turned right and started walking towards his home. In which direction is his home?

- a) North
- b) South
- c) East
- d) West

2. Which Mughal emperor came to attack the Golconda fort but could not enter it for eight months.

- a) Shah Jahan
- b) Aurangzeb
- c) Akbar
- d) Babur

3. Find the odd one out-

- a) Wind Cheater
- b) Whistle
- c) Torch
- d) Perfume

4. The organ affected in sleeping sickness is-

- a) Lungs**
- b) Intestines**
- c) Brain**
- d) Eyes**

5. Statement 1- Medicine for malaria is made from cinchona tree

Statement 2- the dried and powdered leaf of the cinchona tree is used for making the medicine

- a) Statement 1 is correct**
- b) Statement 2 is correct**
- c) Both the Statements are correct**
- d) Both The statements are incorrect**