

DELHI PUBLIC SCHOOL JAMMU

ASSIGNMENT (SESSION-2019-20)

CLASS-X

SUBJECT: CHEMISTRY

Q1. Account for the following.

- a) Antacid tablets are used by a person suffering from stomach pain.
- b) Distilled water does not conduct electricity whereas rain water does.
- c) Sodium hydroxide cannot be kept in aluminium containers.

Q2. HCl and HNO₃ show acidic characters in aqueous solution while alcohol and glucose solutions do not. Give reasons.

Q3. Name the chemicals used in the Soda Acid fire extinguishers and the gas evolved from it when used?

Q4. A milkman adds a very small amount of baking soda to fresh milk.

- a) Why does he shift the pH of the fresh milk from 6 to slightly alkaline?
- b) Why does this milk take a long time to set as curd?

Q5. What happens when: CO₂ is bubbled through lime water in small amount and in excess amount. Write the reactions involved.

Q6. When a few drops of phenolphthalein indicator were added to the solution of some compound A, the solution becomes pink. What does it indicate?

Q7. Name the natural source of each of the following.

- i) Citric acid
- ii) oxalic acid
- iii) lactic acid
- iv) tartaric acid

Q8. A white powder is added while baking breads and cakes make them soft and fluffy. What is name of the powder? What are the main ingredients in it?

Q9. Compounds such as alcohols and glucose also contain hydrogen but are categorised as acids. Describe an activity to prove it.

Q10. What is neutralization reaction? Give two examples.

Q11. Why should curd and sour substances not to be kept in brass and copper vessels?

Q12. While diluting an acid, why is it recommended that the acid should be added to water and not water to acid?

Q13. What is universal indicator? State the purpose for which this indicator is used.

Q14. A metal M forms an oxide M₂O₃. It dissolves both in dilute hydrochloric acid and sodium hydroxide solution. Identify the metal and write the equations involved.

Q15. Why does tooth decay start when the pH of mouth is lower than 5.5?