

Chemistry - 10th Class Chemistry English Medium Short Question Preparations

Q1. Differentiate open chain and closed chain compounds .

Ans 1: Open chain compound : Open chain compounds are those in which the end carbon are not joined with each other in this way they form a long chain of carbon atom $H_3C - CH_2 - CH_2 - CH_3$

Ans 2: Closed chain compounds : Close chain or cycle compounds are those in which the carbon atom at the end of chain are not free . They are linked to form a ring

Q2. What is plastic industry.

Ans 1: Hydrocarbons are used as raw materials for the preparation of a large variety of synthetic polymers Called plastics like polythene, polyester. These can be given any shape when soft and on hardening make a durable article to be used in electric and sewage items and a lot of other household items in common life.

Q3. CO_2 is responsible for heating up atmosphere, how?

Ans 1: Because CO_2 in the atmosphere acts like a glass wall of a green house. It allows UV radiations to pass through it but does not allow the IR radiations to pass through it. It traps some of the infrared radiations emitted by the Earth. Hence, increased concentration of CO_2 layer absorbs the infrared radiations emitted by the Earth's surface that prevents heat energy escaping from the atmosphere. It helps to stop surface from cooling down during night. As the concentration of CO_2 in air increases, less heat energy is lost from the surface of the Earth. Therefore, the average temperature of the surface gradually increases. This is called greenhouse effect

Q4. What are the names of types of the hard water ?

Ans 1: There are two types of water hardness

1: Temporary hardness

2: Permanent hardness

Q5. Identify propane from propene with a test?

Ans 1: Propane and propene can be identified by bromine water test . propene does not give bromine water test because it is saturated hydrocarbons . While propene decolorized the bromine water because propene is unsaturated hydrocarbon having double bond

Q6. What happens when ammonium carbonate is heated with steam ?

Ans 1: When ammonium carbonate is evaporated with the help of steam , it dehydrates to form urea

Ans 2: $NH_2COOH_4 \rightarrow NH_2CONH_2 + H_2O \uparrow$

(Urea)

Q7. Give the advantages of Solvay's process

Ans 1: 1: It is a cheap process as raw materials are available at very low prices
2: Carbon dioxide and ammonia are recovered and reused
3: Process is pollution free, because the only waste is calcium chloride solution
4: Sodium carbonate of very high purity is obtained
5: Consumption of fuel is very less since no solution is to be evaporated

Q8. Give any two properties of polysaccharide?

Ans 1: i. They are amorphous solids 2. they are tasteless and insoluble in water.

Q9. How petroleum is extracted?

Ans 1: Petroleum is extracted by drilling holes into earth's crust where the oil is formed.

Q10. What is Fatty acids with examples:

Ans 1: Fatty acids are building blocks of lipids. Example: they are long chain saturated or unsaturated carboxylic acids.
