

Chemistry - 10th Class Chemistry English Medium Chapter 11 Preparation

Q1. Give use of organic compounds in medicines?

Ans 1: A large number of organic compounds are used as medicines by us. Most life saving medicines are synthesized in laboratories.

Q2. Give the general formula of Alkane

Ans 1: The general formula of Alkane is C_nH_{2n+2}

Q3. Differentiate open chain & closed chain compounds.

Ans 1: Open Chain compounds: 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: Closed chain or cycle compounds are those in which the carbon atom at the end of chain are not free. they are limited to form a ring.

Q4. What is coke ? For what purpose used ?

Ans 1: Coke is 98% carbon . It is left behind as residue of coal . It is mainly used as a reducing agent in the extraction of metals especially iron . It is also used as fuel

Q5. Define functional group with an example:

Ans 1: An atom or group of atoms or presence of double or triple bond which determines the characteristic properties of an organic compound is known as the functional group. Example-OH group is the functional group of alcohols, which gives characteristics properties of alcohols.

Q6. Justify that organic compound are used as food.

Ans 1: the food we eat easily such as milk, eggs, meat, vegetables, etc, contain carbohydrates, proteins, fats, vitamins, etc, are all organic stuff.

Q7. What are heterocyclic compound.

Ans 1: Heterocyclic compounds that contain one or more atoms other than that of carbon atoms in their rings are called heterocyclic compounds.

Q8. How a ketonic group is tested?

Ans 1: Shake a pinch of the given organic compound with about 2 cm³ of Phenyl hydrazine solution .

Q9. Why and how carbon complete its octet ?

Ans 1: Carbon gets minimum energy and maximum stability by sharing its four valence electrons with other atoms . In this way it completes its octet

Q10. How many types of chemical formula of organic compounds?

Ans 1: there are four types of chemical formulas of organic compounds. Molecular formula Condensed formula Dot-cross formula Structural formula
