



THE VILLAGE
INTERNATIONAL SCHOOL
"We Nurture Dreams"

HYDROCARBONS

1. The process of decomposition of organic compound by the application of heat is
(a) pyrolysis (b) evaporation (c) sublimation (d) condensation

2. Isopropyl bromide on Wurtz reaction gives _____

3. Calcium carbide on reaction with water gives _____

4. Assertion –Reason type questions:

In the following questions a statement of assertion followed by a statement of reason is given, Choose the correct answer from the following choices.

(a) Both assertion and reason are correct statements and the reason is a correct explanation for assertion.

(b) Both assertion and reason are correct but reason is not a correct explanation for assertion.

(c) Assertion is correct but reason is incorrect.

(d) Assertion is wrong but reason is correct.

i.

Assertion: Iodination of alkanes is reversible

Reason: Iodination is carried out in presence Iodic acid

5. An alkene on ozonolysis gives a mixture of ethanal and pentan-3-one. Write the structure and IUPAC name of the alkene.

6. Which geometrical isomer of 2-hexene will have a higher boiling point? Why?

7. Effect the following conversions:

a) benzene to m-nitrochlorobenzene

b) benzene to acetophenone

c) ethane to benzene

d) Propan-1-ol to 2,3-dimethyl butane

e) Ethane to butane

f) Acetic acid to methane

g) Acetic acid to ethane

- h) Propan-2-ol to hexane
- i) Ethyne to benzene