

SHIVAJI COLLEGE, UNIVERSITY OF DELHI
DEPARTMENT OF CHEMISTRY
INTERNAL ASSIGNMENT
(Academic Year 2023-24)

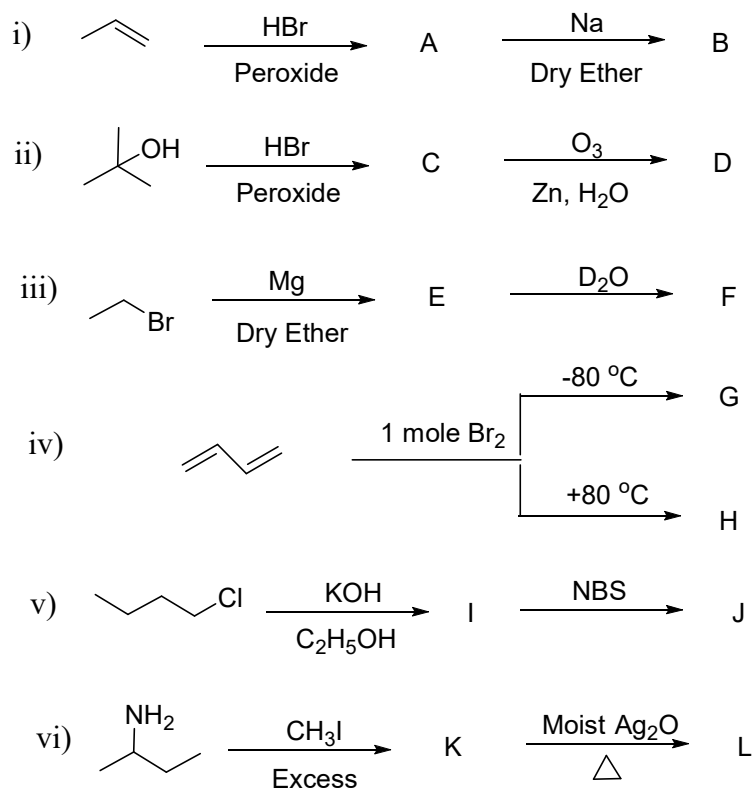
Name of the Course : B.Sc. (Hons.) Chemistry
Name of the Paper : Basic Concepts and Aliphatic Hydrocarbons (UPC -2172011102)
Semester : I
Maximum Marks : 24
Last Date of Submission : 21/11/2023
Faculty Name : Dr. Bhaskar Mohan Kandpal & Dr. Parveen Gahlyan

Q.1 Explain any five: (6 x 2 = 12)

- i) Why bromination of trans-2-butene gives meso dibromo product while bromination of cis-2-butene gives racemic mixture?
- ii) Out of alkene and alkyne, which is more reactive and why?
- iii) Explain the hydration of alkenes with mechanism.
- iv) Propene reacts with HBr in presence of peroxide to give 1-bromopropane whereas in absence of peroxide it gives 2-bromopropane.
- v) Explain why bromination is more selective and less reactive than chlorination of alkenes?
- vi) Arrange the following in increasing order of acidity with giving suitable reasons-
 - a) Acetic acid, 1-chloro acetic acid and propanoic acid
 - b) Phenol, Ethanol, Acetic acid.

Q. 2 Predict the products of the following reactions-

6 x 2 = 12



Signature of the Teacher:

Parveen Ahlyan

