



Shree H.N.Shukla College of Science

B.Sc.(Sem-IV)(Chemistry)(CBCS)

Paper 401: Chemistry

Unit test-2

Date: 24/05/21

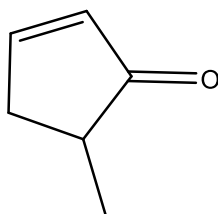
Time: 1.5 hour

[Total- 30 mark]

Q-1(A) Answer the following Questions

[5]

- 1) Write IUPAC name of $\text{CH}_3\text{-CH=CH-CHO}$
- 2) Write IUPAC name of



- 3) Complete the following reaction $\text{R-CO-Cl} + \text{H}_2 \longrightarrow$
- 4) Write reduction reaction of ketone with LiAlH_4
- 5) Chemical formula of Grignard reagent.

(B) Answer any one of the following Questions

[2]

- 1) Give Oxidation reaction of 1° and 2° alcohols.
- 2) Give reason aldehyde more reactive than ketone.

(C) Answer any one of the following Questions

[3]

- 1) Explain addition reaction of HCN with acetaldehyde and ketone.
- 2) Explain reduction reaction of carbonyl compounds.

(D) Answer any one of the following Questions

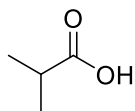
[5]

- 1) Explain addition reaction of aldehyde and ketone with alcohol.
- 2) Explain addition followed by elimination reaction of aldehyde and ketone with ammonia derivatives.

Q-2(A) Answer the following Questions

[5]

- 1) Give the IUPAC name of



- 2) What is source of origin of lactic acid
3) Give the structure of caproic acid.
4) What is full name of HVZ reaction.
5) Give the name of carboxylic acid derivatives.

(B) Answer any one of the following Questions

[2]

- 1) Give structure and IUPAC name of Pthalic acid.
2) Why alcohol weak acid then carboxylic acid.

(C) Answer any one of the following Questions

[3]

- 1) Explain acidity of carboxylic acids.
2) Define Hoffmann degradation reaction.

(D) Answer any one of the following Questions

[5]

- 1) Explain reaction with mechanism: Hell-Volhard –Zelinsky with suitable examples.
2) Explain hydrolysis of ester by **B_{AC}2** mechanism.