

The H. N. S. B. Ltd. Science College, Himatnagar

Internal Examination September - 2017

B.Sc. Sem-5

Subject: Chemistry

Date: 12 /9/2016

Marks: 40

Paper CC-CH-502

Time: 1½ hr

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- Q-1 (A) Give any three answer of the Following** **10**
- 1) Explain Backmann Transformation.
 - 2) Discuss the configuration of di substituted Cyclohexane.
 - 3) Discuss the configuration of Aldehyde.
- (B) Draw the Structure Formula of the Following (Any Three)** **03**
- (1) 6-6' Difluorodifenic acid (2) Bi Mesitile(3) Mesitlene(4) Allene
- Q-2 A) Give any one answer of the Following** **07**
- 1) Prove the Structure Formula of α -Terpeneol.
 - 2) Prove the Structure Formula of Citral.
- B) Give any one answer of the Following** **07**
- 1) Prove the Constitution of Maltose.
 - 2) Prove the Constitution of Sucrose.
- Q-3 (A) Give any three answer of the Following** **10**
- 1) Discuss Unimolecular Nucleophilic substitution reaction Mechanism with proper example.
 - 2) Discuss stereochemistry of bimolecular Nucleophilic Substitution reaction.
 - 3) Explain in brief: E₁cb reaction mechanism.
 - 4) Write notes on "neighboring group participation".
- (B) Give any two answers of the following** **03**
- 1) Give Definition Nucleophilic Substitution reaction.
 - 2) Explain elimination reaction.
 - 3) Explain rearrangement reaction.