

Exam. Code : 103203
Subject Code : 1292

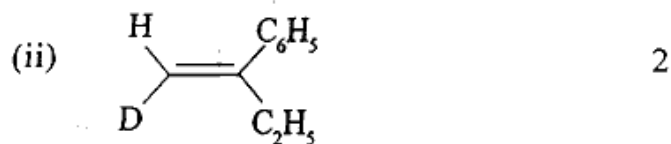
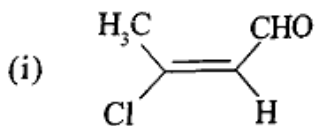
B.A./B.Sc. 3rd Semester
CHEMISTRY
(Organic Chemistry-II)

Time Allowed—3 Hours] [Maximum Marks—35

Note :—Candidates are required to attempt **FIVE** questions selecting at least **ONE** question from each section. The fifth question may be attempted from any section.

SECTION—A

- (a) Enlist the difference between Enantiomers and Diastereomers. 5
- (b) What are D- and L-isomers? 2
- (a) Assign E/Z configurations to the following :

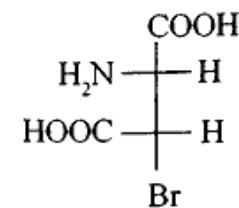
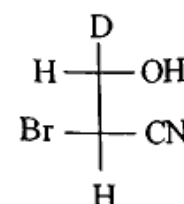


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- (b) Assign R/S configuration to both stereocentres in the following compounds :



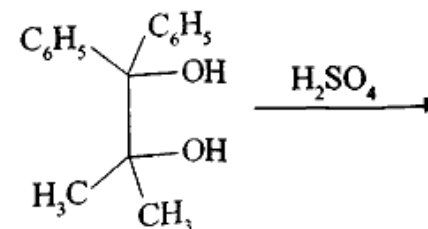
(i)

(ii)

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SECTION—B

- (a) Draw the potential energy diagram for various conformations of n-Butane. 4
- (b) Write the various differences between conformational and configurational isomers. 3
- (a) Complete the following reaction and discuss its mechanism :



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- (b) Discuss in brief the acidic characters of alcohols. 2

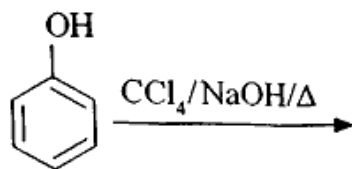
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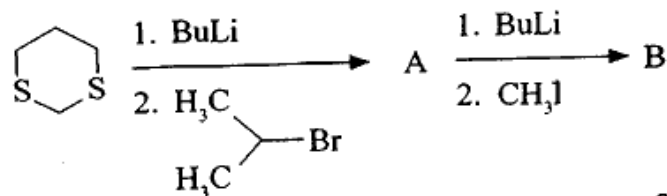
SECTION—C

5. Complete the following reaction and provide a suitable mechanism :



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6. (a) Discuss Claisen Rearrangement and provide a suitable mechanism. 5
(b) Complete the following reaction by providing the structures of A and B



2

SECTION—D

7. Discuss Wittig reaction with suitable mechanism. 7
8. What is Wolff-Kishner reduction ? Give an example with mechanism. 7