

Exam. Code : 103203

Subject Code : 1292

B.A./B.Sc. 3rd Semester

CHEMISTRY

(Organic Chemistry-II)

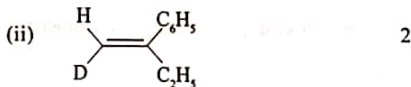
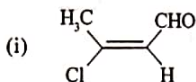
Time Allowed—3 Hours]

[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 :

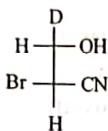


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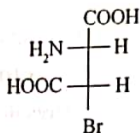
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(Contd.)

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



(i)

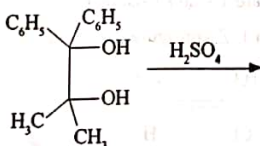


(ii)

5

SECTION—B

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



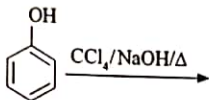
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- (b) Discuss in brief the acidic characters of alcohols.

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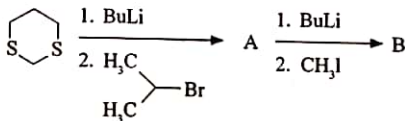
SECTION—C

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