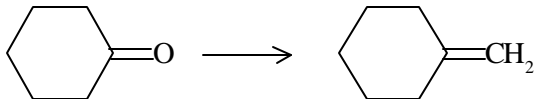


SECTION—B

5. Discuss the preparation of aldehydes and ketones using acid chlorides and 1,3-dithianes. 4
6. Discuss the following with mechanism :
- (a) Benzoin condensation
- (b) Wittig Reaction. 2+2
7. (a) What are acetals ? Explain giving an example how they can be used as protecting groups. 2
- (b) Explain 1,2- and 1,4-addition reactions of α,β -unsaturated aldehydes and ketones. 2
8. Explain the following with mechanism :
- (a) Michael Addition
- (b) Mannisch Reaction. 2+2

SECTION—C

9. (a) What is Luca's reagent ? Discuss Luca's test. 2
- (b) Why carbonyl compounds undergo nucleophilic addition reactions ? 2
- (c) How will you convert cyclohexene into cis-1,2-cyclohexanediol ? 2
- (d) How will you convert :
- 
- (e) Give reason for high reactivity of phenol in electrophilic substitution of benzene ring with examples. 2

Roll No.

Total No. of Pages : 2

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BS/2111

**ORGANIC CHEMISTRY—II
Semester—III**

Time Allowed : Three Hours]

[Maximum Marks : 26

Note :— The candidates are required to attempt *two* questions each from Sections A and B. Section C will be compulsory.

SECTION—A

1. (a) Compare the acidic character of primary, secondary and tertiary alcohols. 2
- (b) Discuss reaction of Ethan-1,2-diol with lead tetraacetate with mechanism. 2
2. Explain the following with mechanism :
- (a) Pinacol-Pinacolone rearrangement.
- (b) How does Glycerol reacts with (i) KHSO_4 and (ii) Excess HI ? 2+2
3. Discuss the following with mechanism :
- (a) Fries Rearrangement
- (b) Hauben-Housch Reaction. 2+2
4. Write short notes on :
- (a) Reimer-Tiemann Reaction
- (b) Gatterman synthesis. 2+2