

Roll No.

Total No. of Pages : 02

Total No. of Questions : 13

**B.Pharma (2017 & Onwards) (Sem.-2)**  
**PHARMACEUTICAL ORGANIC CHEMISTRY-I**

Subject Code : BP-202T

M.Code : 74968

Time : 3 Hrs.

Max. Marks : 75

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

**SECTION-A**

**1. Briefly write about the following :**

- (a) Define and classify organic compounds.
- (b) Give structure and uses of Glycerol.
- (c) What are qualitative test for carboxylic acid?
- (d) What is effect of substituents on basicity of aliphatic amines?
- (e) What is ozonolysis?
- (f) What are structural isomerism?
- (g) What are carbocations?
- (h) Write structure and uses of Chloral hydrate.
- (i) Write chemical structures of tartaric acid and lactic acid.
- (j) What is electromeric effect?

## SECTION-B

2. Compare and contrast E1 versus E2 with respect to mechanism, kinetics, orientation and reactivity.
3. Write the mechanism involved in aldol condensation, Benzoin condensation and Perkin condensation.
4. Write qualitative test, structures and uses of ethanolamine, ethylenediamine and amphetamine.

## SECTION-C

5. Write in detail about halogenation of alkanes.
6. Discuss free radical addition reactions of conjugated dienes.
7. Give an account on SN1 and SN2 reactions.
8. Discuss structure and uses of chloroform and iodoform.
9. Write qualitative tests, structure and uses of ethyl alcohol.
10. Write important uses of paraldehyde, vanillin and cinnamaldehyde.
11. Explain Cannizzaro and Crossed Cannizzaro reaction.
12. Discuss Markownikoff's orientation as well as Anti-Markownikoff's orientation.
13. Write down brief note on Methyl salicylate and Acetyl salicylic acid.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**