

Roll No.

Total No. of Pages : 02

Total No. of Questions : 13

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

Subject Code : BP-202T

M.Code : 74968

Date of Examination : 06-07-22

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) What is Diels alder reaction?
- (b) What is allylic arrangement?
- (c) What do you mean by ozonolysis?
- (d) What are conjugated dienes?
- (e) State Markownikoff's orientation.
- (f) What is electromeric effect?
- (g) Write structure and uses of tetrachloroethylene and tetrachloromethane.
- (h) Write structure and uses of Hexamine.
- (i) Structure and uses of glycerol.
- (j) Name and write structures of one each of primary, secondary and tertiary amines.

## SECTION-B

2. Explain E1 versus E2 reactions with respect to mechanism, kinetics, orientation and reactivity.
3. What are carbonyl compounds? Discuss Benzoin condensation and Perkin condensation in detail.
4. Write in details about Ethanolamine, Ethylenediamine and Amphetamine.

## SECTION-C

5. Write in detail about halogenations of alkanes.
6. Discuss in detail about rearrangement of carbocations.
7. Give an account on factors affecting SN1 and SN2 reactions.
8. Discuss structure and uses of glycerol, salicylic acid and chloral hydrate.
9. Write qualitative tests, structure and uses of formaldehyde and acetone.
10. Write important uses of acetic acid, chloroform, vanillin and ethyl alcohol.
11. Discuss free radical addition reactions of alkenes.
12. What are carboxylic acids? Explain the effect of substituent's on acidity.
13. Write a short note on structural isomerism in organic compounds.

**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.**