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Total No. of Pages : 02

Total No. of Questions : 22

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

Briefly write about the following :

1. Write the structure and uses of Hexamine and Chloral Hydrate.
2. Define diastereomers and meso compounds.
3. Differentiate between configuration and conformation.
4. SP^2 hybridization in alkenes.
5. Write structure of Amphetamine.
6. Structure and uses of glycerol.
7. Give qualitative test for chlorobutanol.
8. What happens when amides are heated with sodium hydroxide?
9. Saytzeffs orientation in elimination reactions.
10. Give structure and medicinal uses of Acetyl salicylic acid.

SECTION-B

11. Discuss the following :
 - i) Ozonolysis
 - ii) Allylic rearrangement.
12.
 - i) Explain the mechanism of Cannizzaro and crossed Cannizzaro reactions.
 - ii) Explain Anti Markownikoff's rule with suitable example.
13. Discuss the mechanism of SN^1 and SN^2 reactions of alkyl halides

SECTION-C

14. Discuss the qualitative tests of esters.
15. Write the differences between E_1 and E_2 reactions.
16. Discuss about acidity of carboxylic acids and effects of substituent on it.
17. Explain D/L and d/l notations giving examples.
18. Explain the mechanism of Perkin condensation reaction.
19. How will you differentiate between 1° , 2° and 3° amines qualitatively?
20. What do you understand by *R* and *S* notations in optically active compounds?
21. Describe electrophilic addition reactions of conjugated dienes.
22. Discuss the order of reactivity of alkyl halides in elimination reactions.

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.