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

Q1 Briefly write about the following :

a) Define metamers. Give example.

b) Draw the structure of 3-bromo-l-chloro cyclohexene.

c) What is walden inversion?

d) What are the uses of hexamine?

e) Define Saytzeffs rule.

f) Give the product of addition of HC1 to 1,3-butadiene.

g) Comment upon the uses of benzylbenzoate.

h) Give chemical test to distinguish between propanal and propanone.

i) Write the chemical equation when ethyl chloride reacts with aqueous KOH.

j) Give the structure and use of cetosteryl alcohol.

SECTION-B

Q2. Comment upon following :

a) Perkin condensation

b) Crossed Cannizaro reaction

Q3. Give the detailed comparison of SN1 and SN2 reactions with respect to their kinetics, reactivity and stereochemistry involved in various types of alkyl halides.

Q4. Comment upon the hybridisation and geometry of alkanes and alkenes. Discuss in detail various reactions of alkenes.

SECTION-C

Q5. Classify organic compounds. Give examples of each class.

Q6. Explain allylic rearrangement.

Q7. Give the mechanism of halogenation of alkanes.

Q8. How can we distinguish between various types of amines via qualitative tests?

Q9. Comment upon various factors affecting El and E2 reactions.

Q10. Give structure and uses of chloral hydrate and vanillin.

Q11. Enumerate various qualitative tests carried for the identification of amides and esters.

Q12. Explain the effect of inductive effect on acidity of carboxylic acids.

Q13. Differentiate between electromeric and inductive effect?

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.