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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-1-chloro cyclohexene.
- c) What is walden inversion?
- d) What are the uses of hexamine?
- e) Define Saytzeff's rule.
- f) Give the product of addition of HCl 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 :
- Perkin condensation
  - 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 E1 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.**