Roll No. | | | | | | | | | | | | |

Total No. of Pages : 2

Total No. of Questions : 13

B.Pharma (2017 Batch) (Sem.-2)

PHARMACEUTICAL ORGANIC CHEMISTRY-I

Subject Code : BP-202T

Paper ID : [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) Full form of IUPAC.

b) Geometrical isomerism.

c) Structure and uses of Iodoform.

d) Structure and uses of Tartaric acid.

e) Electromeric effect.

f) Structure and uses of chloral hydrate.

g) AntiMarkovnikov's rule with example.

h) Uses of paraffins.

i) Allylic rearrangement.

j) Qualitative tests of Amides.

SECTION-B

Q2 What are SN^1 and SN^2 reactions of alkyl halides? Discuss kinetics and their order of reactivity.

Q3 Discuss in detail the following reactions :

a) Benzoin condensation.

b) Diel-Alder reaction.

Q4 Discuss in detail the evidences of various Elimination reactions. Describe various factors affecting these reactions.

SECTION-C

Q5 Give a comprehensive account of classification of organic compounds.

Q6 Write Isocyanide reaction. What is its significance?

Q7 Explain the mechanism of 1,2 and 1,4 addition reaction of conjugated dienes using suitable examples.

Q8 Differentiate between enantiomers and diastereomers by giving examples.

Q9 How will you differentiate between aldehydes and ketones qualitatively?

Q10 Explain the mechanism of Aldol condensation reaction?

Q11 How will you differentiate between 1°, 2° and 3° alcohols qualitatively?

Q12 Discuss effects of substituents on basicity of aliphatic amines.

Q13 How will you identify presence of carboxylic group in organic compounds?