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.

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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?

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