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SHAMBHUNATH INSTITUTE OF PHARMACY

**B. PHARM. FIRST YEAR (2nd Sem.)
PHARMACEUTICAL ORGANIC CHEMISTRY-I
Model Paper-2018-19**

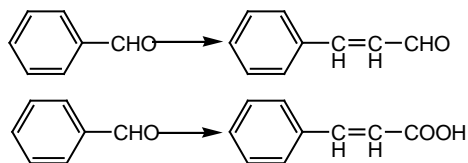
Time: 3.00 Hours.

Marks: 75

SECTION-A

1. Attempt all questions: (2×10=20)

- Write the comparison of E₁ and E₂ reaction.
- What is functional isomerism?
- Write Ozonolysis reaction for alkene.
- Write Lucas test.
- Draw the structure of Iodoform and trichloro ethylene.
- Write Hinsberg test for aliphatic amine.
- Explain why acetic acid is a weaker acid than formic acid, while chloro acetic acid is stronger acid.
- How will you distinguish a ketone and aldehyde by chemical methods?
- Why are aldehyde are more reactive than ketones when undergo nucleophilic addition reaction?
- How will you convert-



SECTION-B

2. Attempt any seven question (5×7=35)

- Draw the structure and uses of Citric acid, Oxalic acid and Succinic acid.
- Discuss effect of substituents on the acidity of monocarboxylic acid.
- Draw the structure and write uses of **any four**-
 - Citric acid
 - Benzyl alcohol
 - Ethylene diamine
 - Dichloromethane
 - Aspirin
- Discuss the behaviour of alcohols towards- (a) Ester formation (b) Dehydration
- Draw the structure and uses of (**any four**)-
 - Methyl salicylate
 - Salicylic acid
 - Cinnamaldehyde
 - Benzoic acid
 - Glycerol
- What are carbonyl compound? Discuss the reactivity of carbonyl group towards Nucleophilic attack.
- Give structure and uses of – (**any four**)
 - Hexamine
 - Vanillin
 - Benzyl benzoate
 - Paraldehyde
 - Chloral hydrate
- Write about structural isomerism with suitable example.
- Discuss the free radical addition reaction of conjugated diene with suitable example

SECTION-C

3. Attempt any two question. (2×10=20)

- What are SN₁ and SN₂ reaction? Explain giving mechanism of each reaction. Write factor affecting on SN₁ and SN₂.
- Write short note on- (**any three**)
 - Markonikov's rule
 - Perkin reaction
 - Cannizzaro reaction
 - Aldol condensation
- Draw the structure and write uses of any four compounds-
 - Chlorobutanol
 - Propylene glycol
 - Cetosteryl alcohol
 - Amphetamine
 - Oxalic acid

