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SUBJECT CODE NO:- DP-35
FACULTY OF SCIENCE & TECHNOLOGY

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B.Pharm (Sem-II)
Examination March 2023
Pharmaceutical Organic chemistry –I

[Time: 3:00 Hours]

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[Max. Marks:75]

Please check whether you have got the right question paper.

N.B

- 1) All questions are compulsory
- 2) Write reactions examples & draw structures wherever necessary

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Q.1 Answer the following question in short 2X10=20

- i) Draw structure of organic compounds containing carbon & nitrogen as structural backbone (or) skeletons.
- ii) Write IUPAC name & draw structure of salicylaldehyde
- iii) Draw structure of 2,3 dimethyl benzamide
- iv) Write a note on stability of dienes with example <https://pharmacyindia.co.in/>
- v) Write crossed Aldol condensation reaction
- vi) Draw structure & uses of vanillin & glycerol
- vii) Write reaction for conversion of
 - a) Alkanes to alkenes <https://pharmacyindia.co.in/>
 - b) Alkenes to alkanes
- viii) Write a note on hybridization & its types with example
- ix) Write a reaction for conversion of acids to amines
- x) Draw sp^3 hybridisation of alkanes

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Q.2 Write answers of the following questions in detail (any 02) 20

- 1) Write reactions for conversion of
 - a) Alkanes to alcohol
 - b) Alkanes to carboxylic acid
 - c) Alcohol to aldehydes
 - d) Acids to amines
 - e) Alkenes to aldehyde & ketones <https://pharmacyindia.co.in/>
- 2) Write nucleophilic substitution reaction for tertiary alkyl helps in terms of its mechanism, stereochemistry & stability
- 3) Compare unimolecular & bimolecular elimination reactions in terms of kinetics, mechanism & evidence, Saytzeff's rule

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Q.3 Write answers of the following (any 7) 5X7=35

- 1) Write reaction & mechanism of halogenation of alkanes
- 2) Write in detail about reaction to differentiate different alcohols
- 3) Write a note on acidity of carboxylic acids
- 4) Write reactions to differentiate types of amines

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- 5) Write a note on basicity of amines
- 6) Define & classify isomers with example
- 7) Write reactions for preparation of alkanes from aldehyde or ketone
- 8) Write reaction & mechanism for markovnikov's reaction & peroxide effects
- 9) Write any 05 reactions of alkenes

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