

## ranker's choice B.PharmwwwSFirstRankerstonNew) www.FirstRanker.com

35340: Pharmaceutical Organic Chemistry - I: BP 202 T

P. Pages: 2

Time: Three Hours



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Max. Marks: 75

Notes:

- 1. Answer all question.
- 2. Illustrate your answer necessary with the help of neat sketches.
- 3. Discuss the reaction, mechanism wherever necessary.

## 1. a) Multiple choice Questions.

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- Acetic acid is obtained when acetaldehyde is oxidized with potassium dichromate and -----.
  - a) HNO<sub>3</sub>

- b) HCL
- c) Sulphuric acid
- d) Oxalic acid
- Which of the following reactions may be associated with aldehyde and ketone.
  - Nucleophilic addition
- b) Polymerization

c) Oxidation

- All of the above d)
- Which of the molecule does not undergoes the aldol condensation.
  - Formaldehyde
- Acetaldehyde
- Glyceraldehyde
- All of them d)
- Methyl alcohol is not used as -
  - A solvent

- b) An anti freezing agent
- c) A substitute of petrol
- For denaturing of ethyl alcohol d)
- What is the order of Kinetic in SN<sup>2</sup> mechanism.
  - Zero a)

First b)

Second c)

- d) Both zero and first
- In the primary alkyl halide the halogen atom is attached to with -
  - One carbon atom
- Two carbon atom b)
- Three carbon atom
- Four carbon atom d)
- Chlorination of alkane is an example the reaction which is
  - Elimination reaction
- Free radical
- Substitution reaction
- d) None of them
- Alkane also known as -8)
  - a) Paraffines

- b) Olefins
- Saturated hydrocarbons
- d) (a) and (c) both
- Order of ease of halogenation in alkane is -
  - $I_2 > CI_2 > Br_2 > F_2$
- $F_2 > Cl_2 > I_2 > Br$
- c)  $F_2 > Cl_2 > Br_2 > I_2$
- d)  $Cl_2 > Br_2 > F_2 > I_2$

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reaction.

a) Phenol

b) Dienophile

c) Hexane

d) Bromophenol

b) Solve the following –

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- a) Draw the molecular structure of 2-chloro 5,5 diethyl hexane.
- b) Draw the molecular structure of Methanol.
- c) Draw the molecular structure of 2-Methyl butanoic acid.
- d) Write the uses of Ethanol.
- e) Write the uses of citric acid.
- 2. Solve the following any two.

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- What is E<sub>2</sub> reaction, write in detail about reaction mechanism, kinetics, energy profile diagram and stereochemistry of E<sub>2</sub> reaction.
- What is SN<sup>1</sup> reaction write in detail about its mechanism, kinetics, energy profile diagram and stereochemistry of SN<sup>1</sup> reaction.
- 3) Discuss the reactions of alkane with special emphasis on halogenation.
- Solve the following any seven.

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- 1) What is isomerism in organic compound, write about structural isomerism.
- 2) What is hybridization write about SP<sup>3</sup> hybridization in alkane.
- 3) Write about Markownikoff's orientation and Anti Markownikoff's orientation.
- 4) Write qualitative tests of cetostearyl alcohol.
- 5) Write detail about Cannizzaro reaction.
- 6) What is condensation, write about Benzoin condensation.
- 7) Write about the Basicity of Amines (Aliphatic) and note on uses of Amphetamine.
- 8) Write about uses of Glycerol.
- 9) Write about uses of Acetyl salicylic acid.

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