



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 150201

Roll No.

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B. Pharm.

(SEM. II) THEORY EXAMINATION, 2014-15

PHARMACEUTICAL CHEMISTRY-II

(ORGANIC CHEMISTRY)

Time : 3 Hours]

[Total Marks : 70

Note : Attempt all questions as per instructions

SECTION-A

1 Attempt all question parts. Each part carries $1 \times 14 = 14$
1 marks.

- Why sigma bond is _____ than pi bond?
- IUPAC Name of $\text{Cl-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CHO}$

- Write the structure of 2,2,3 fluoro tetra hetanoic acid.
- In Cannizaro reaction used to prepare mainly

- Aromatic compounds mainly consist of _____
- CH_3 show _____ Inductive effect.

- (g) Chain isomer consist of _____ Structure.
- (h) One example of optical isomer is _____
- (i) _____ is example of Reimer-Tiemann reaction.
- (j) _____ follow $4n+2$ rule.
- (k) Define terms Carbonion with example.
- (l) Give the structure of Cresol.
- (m) Arenes means _____
- (n) Define Mannich base.

SECTION-B

2 Attempt any six questions. **6x4=24**

- (a) Discuss various types of geometrical isomers with suitable examples.
- (b) Explain nucleophilic reaction for Benzene with mechanism.
- (c) Discuss free radical substitution reaction of alkanes with mechanism.
- (d) Explain structure of benzene in detail.
- (e) Discuss aldol condensation reaction with its mechanism.
- (f) Explain Inductive effect with example.
- (g) Why phenol are more acidic than alcohol?

SECTION-C

3 Attempt any four questions. **8×4=32**

- (a) Define Aromaticity, orientation & reactivity of aromatic compounds. Explain mechanism of electrophilic substitution reaction of benzene.
 - (b) Give any two methods of preparation of alkyl halides. Discuss about SN^1 and SN^2 reactions.
 - (c) Explain resonance and inductive effect in detail along with their applications.
 - (d) Define Isomerism. Explain different types of Isomerism with suitable examples.
 - (e) Discuss preparation of Arenes. Write four applications of Grignard reagent.
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