Printed Pages : 3

BOP121

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

PAPER ID : 150201

Roll No.

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 marks. **1×14=14**

(a) Why sigma bond is _____ than pi bond?

(b) IUPAC Name of $Cl\text{-}CH_2\text{-}CH_2\text{-}CH_2\text{-}CH_2\text{-}CHO$

_____

(c) Write the structure of 2,2,3 fluoro tetra hetanoic acid.

(d) In Cannizaro reaction used to prepare mainly

_____

(e) Aromatic compounds mainly consist of _____

(f) 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 exambles.

(b) Explain nucleophillic 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.