15.5.10

Roll No. .....

Total No. of Questions : 10] [Total No. of Pages : 02

B.Pharmacy (Sem. - 2nd)

PHARMACEUTICAL CHEMISTRY - III

(Organic Chemistry - I)

SUBJECT CODE : PHM - 1.2.4 (2k9 Scheme)

Paper ID : [D0149]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours **Maximum Marks : 80**

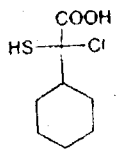
Instruction to Candidates:

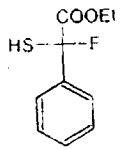
1) Section - A is **Compulsory**.
2) Attempt any **Four** questions from Section - B.
3) Attempt any **Three** questions from Section - C.

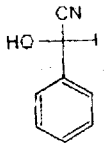
Section - A

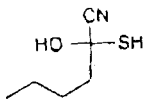
(15 × 2 = 30)

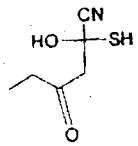
Q1) A) Write the IUPAC name of the following :

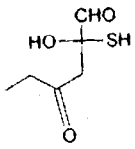
a) 

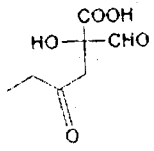
b) 

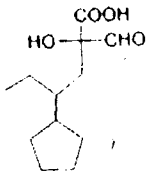
c) 

d) 

e) 

f) 

g) 

h) 

B) Define the following :

i) Configuration.

j) Meso Compounds.

k) Distomers.

l) Electronegativity.

m) Enantiomeric excess.

n) Carbene.

o) Molecular orbital.

Section - B

(4 × 5 = 20)

Q2) Describe various methods of preparation of alcohols.

Q3) Describe various reactions of carboxylic acids.

Q4) Explain with examples stereoselective reactions.

Q5) Describe various methods of preparation of amines.

Q6) Describe various reactions given by phenols.

Section - C

(3 × 10 = 30)

Q7) Describe the various reactions involving carbanion with detailed mechanisms.

Q8) Describe various phase transfer catalysed reactions.

Q9) Describe in detail the synthesis and reactions shown by alkyl halides.

Q10) Discuss the general mechanism of aromatic electrophilic substitution reactions.