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

Paper ID : [D0110]

[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

Q1) *(15 × 2 = 30)*

a) Covalent bond.

b) Bonding Molecular orbital.

c) Diastereomers.

d) Hydrogen bonding.

e) Aprotic solvents.

f) Freely soluble.

g) Name two tests used to identify carboxylic acids.

h) What is the chemistry of dye test of amines?

i) What is oil of wintergreen?

j) Name two oxidizing agents.

k) Conformation.

l) Eutomer.

m) Huckel rule.

n) Grignard's reagent.

o) Tollen's reagent.

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Section - B

(4 × 5 = 20)

Q2) Describe various methods of preparation of alcohols.

Q3) Describe various reactions of amides.

Q4) Explain with examples stereospecific reactions.

Q5) Describe various methods of preparation of ketones.

Q6) Describe various reactions given by amines.

Section - C

(3 × 10 = 30)

Q7) Explain the mechanism for acid and base catalyzed hydrolysis of esters.

Q8) Describe the various reactions involving carbocation with detailed mechanisms.

Q9) Describe various phase transfer catalysed reactions.

Q10) Describe in detail the synthesis and reactions shown by diazonium salts.

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