

[4225]-410

M.Sc.

ORGANIC CHEMISTRY

CH - 452 : Heterocyclic Chemistry Chiron Approach and
Medicinal Chemistry
(2008 Pattern) (Semester - IV)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates :

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Answers to the two sections should be written in separate answer books.

SECTION - I

- Q1)** a) Explain the following concept of supramolecular chemistry [3]
 i) Molecular recognition & complexation.
 ii) Template directed synthesis.
- b) Explain the following any three : [9]
 i) Benzofuran is more stable than Furan towards acid.
 ii) Quinoline is used as a solvent in decarboxylation reactions.
 iii) Imidazole undergoes electrophilic substitution only under vigorous conditions.
 iv) Electrophilic substitution in 4 - Phenyl Pyridine occurs in the benzene ring.
- Q2)** a) Give the reactions of following reagents with thiophene - [4]
 i) HNO_3 , Ac_2O , AcOH , 0°C
 ii) ClSO_3H , PCl_5 , R.T
 iii) I_2 , aq. HNO_3 , 90°C
 iv) HCHO , CHCl_3 , 0°C
- b) Predict the product/s in any five of the following : [10]



P.T.O.

Ksc Chemistry Semester B V4 0 Unit 3 Pretest

J Elliott



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