Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy

PHARMACEUTICAL CHEMISTRY-IV (ORGANIC CHEMISTRY-II)

Subject Code : BPHM-306

M.Code : 46226

Time : 3 Hrs. Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. Section-A is COMPULSORY.
2. Attempt any FOUR questions from section-B & any three questions from section-C.

SECTION-A

1. Write short note on following :

a) Comment on the basicity of pyrrole.

b) Give the synthesis of thiophene.

c) Discuss the tautomerism of imidiazole structure.

d) Draw the structures of any two drugs having thiazole nucleus.

e) Define anomer with one example.

f) What is mutarotation?

g) Why sucrose is non-reducing disaccharide?

h) What is invert sugar? By drawing structure specify type of O- glycosidie linkage present in maltose.

i) What is Millon's test?

j) Name non-covalent bonding present in tertiary structures of protein.

k) What is drying of oils?

l) What is saponification value?

m) Explain possible tautomerism in xanthine.

n) Give any two examples of coumarin containing drugs.

o) What is 4+2 cycloaddition reaction.

SECTION-B

2. Explain the electrophilic substitution in pyrrole.

3. Give an account on the reactions of quinoline.

4. What is Kiliani-Fischer synthesis? Comment on its synthetic importance in carbohydrate chemistry.

5. Explain the mechanism of mutarotation in the cyclic structure of D-glucose.

6. Discuss the typical titration curve of amino acids.

SECTION-C

7. What are the salient features of the Watson and Crick model of double helical structure of DNA?

8. Explain different types of non-covalent bonding required for the stabilization of DNA structure.

9. Name the various methods used to sequence the structure of polypeptides. Describe any one in detail.

10. Describe the synthesis and important chemical reactions of phenothiazine.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.