

www.FirstRanker.com

www.FirstRanker.com



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?

1 M-46226

(S17)-2864

www.FirstRanker.com

FirstRanker.com

www.FirstRanker.com

www.FirstRanker.com

- 1) 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.

2 | M-46226

(S17)-2864