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Roll No. Total No. of Pages : 02

Total No. of Questions: 10

B.Pharmacy (Sem.-3)

PHARMACEUTICAL CHEMISTRY-IV (ORGANIC CHEMISTRY-II)

Subject Code: PHM-232 M.Code: 46027

Time: 3 Hrs. Max. Marks: 80

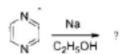
INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

Write short notes on :

- a) What are symmetry allowed and symmetry forbidden reactions?
- b) Define protein denaturation.
- Difference between nucleoside and nucleotide.
- d) What are reducing and non-reducing sugars?
- e) Give any one synthesis for aziridine.
- f) Why does pyrazole exist as dimer?
- g) Draw the structure of oxetane.
- Name any two new organic reagents used in drug synthesis.
- Give Woodward Hoffman's rule for electrocyclic reactions.
- Write the ring structure and nomenclature of oxazine.
- k) What is Anchimeric assistance?
- 1) Complete the following reaction:-



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- m) Draw the structures of any two O-containing heterocyclic scaffold.
- n) State Erwin-Chargaff's rule.
- o) Differentiate protein from peptide.

SECTION-B

- What is Diel's Elder reaction? Explain its stereochemistry.
- Describe the stereoselective specific reaction with one example of each.
- Give important chemical reactions of pyridine.
- Describe the structures of various phosphatidic acid derivatives.
- Discuss the structure of D-glucose.

SECTION-C

- Compare the electrophilic substitution reactions of pyrrole, thiophene and furan.
- Describe the following reactions of monosaccharides :
 - a) Epimerization
 - b) Various mechanism of osazone formation
 - c) Oxidation
- Describe various methods employed for determination of sequence of amino acid in proteins and peptides.
- Give detailed account on structure of DNA.

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.

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