

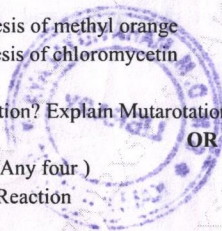
Total No. of Printed Pages: 2

SUBJECT CODE NO: - Y-2160
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (PATTERN-2013) (T.Y SEM VI)
Examination April / May - 2024
Chemistry Paper -XVII (Organic Chemistry)

[Time: 1:30 Hours]**[Max. Marks:50]**

Please check whether you have got the right question paper.

- N. B 1) All questions are compulsory.
- Q1** A) Draw orbital diagram of Thiophene and Pyridine , Explain aromatic nature of both molecule **10**
 B) In aldoses , give reaction for **10**
 i) Chain lengthening
 ii) Chain shortening
- OR**
- A) Give the preparation of Quinoline by Skraup method **10**
 B) i) Draw the canonical forms of Thiophene **10**
 ii) Nitration of Pyrrole with mechanism
- Q2** A) i) Give the synthesis of methyl orange **04**
 ii) Give the synthesis of chloromycetin **06**
 B) What is Mutarotation? Explain Mutarotation in glucose. **10**
- OR**
- Write short note on (Any four) **20**
 a) Chichibabin Reaction
 b) Indigo dyes
 c) Synthesis of Nylon -66
 d) Open and close chain structure of Glucose
 e) Mutarotation
- Q3** Multiple choice questions **10**
 1) Which of the following carbohydrates is not sugar
 a) Glucose b) Fructose c) Lactose d) Cellulose
 2) Which of the following monosaccharides is ketohexose?
 a) Glucose b) Fructose c) Sucrose d) Cellulose



- 3) The monomer of natural rubber is -----
a) Vinyl chloride b) Isoprene c) Acrylonitrile d) Styrene
- 4) Which of the following acts as diene in Diels –Alder reaction
a) Pyrrole b) Furan c) Pyridine d) Piperidine
- 5) Which of the solvent is heterocyclic in nature
a) Ethanol b) Benzene c) THF d) DMSO
- 6) Sulphaguanidine is used for
a) Eye infection b) As antiseptic c) Dysentery d) Nervous system
- 7) In Nitrobenzene -----acts as chromophore
a) Benzene ring b) Nitro group c) π bond of benzene d) All of above
- 8) In pyrrole electrophilic substitution reaction occurs at ---position
a) 2 b) 3 c) 4 d) All of these
- 9) Polymerization of ω amino caprolactum is ----
a) Nylon -66 b) Terylene c) Nylon 6 d) Bakelite
- 10) Congo Red does not contain -----group
a) A3o group b) Amino group c) Carboxylic acid d) Sulfonic acid

