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SUBJECT CODE NO: - Y-2010
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI)
Examination March / April - 2023
Chemistry Paper -XVII (Organic Chemistry)

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

Please check whether you have got the right question paper.

N. B

- i) Attempt all questions
- ii) Figures to the right indicate full marks.

- Q1 A) Give the preparation of Quinoline by skraup method and furan from music acid. 10
 B) Give interconversions of 10
 i) Fructose to Glucose
 ii) Glucose to Mannose

OR

- A) What is mutarotation & Explain mutarotation of glucose? 10
 B) i) Give comparison of basicity of pyrrole, piper dine & pyridine 05
 ii) Explain with mechanism the nitration of pyrrole 05

- Q2 A) i) Explain colour and constitution of dyes 06
 ii) Give synthesis of chloromycetien 04
 B) What is polymerisation? Give the synthesis and uses of Nylon 6 & Neoprene 10

OR

- Write short note on (Any four) 20
 a) Molecular orbital picture of thiophene
 b) Congo red
 c) properties of an ideal drug
 d) Synthesis of sulphaguanidine

- e) Cellulose
- f) Amination of pyridine

Q3 Multiple choice questions

10

1. How many no. of resonating structure stabilises a pyridine molecule
a) 4 b) 5 c) 6 d) 7
2. Quinoline is used as a _____.
a) antipyretic b) anti-inflammatory c) analgesic d) antiseptic
3. Which of the following is not auxochrome
a) -OH b) -OR c) -NH₂ d) -COOH
4. Natural rubber is a _____ addition polymer of isoprene unit
a) 1-2 b) 1-4 c) 1-3 d) 1-5
5. Maltose is a disaccharide of _____.
a) Glucose & galactose b) Glucose f glucose
c) Glucose & lactose d) fructose & lactose
6. Which of the following solvent is a heterocyclic compound?
a) DMSO b) Diglyme c) DMF d) THE
7. The monomer of polyacrylonitrile is
a) vinyl cyanide b) vinyl chloride c) vinyl alcohol d) None of these
8. Which of the following is also known as invert sugar?
a) sucrose b) fructose c) Dextrose d) glucose
9. Which of the following undergo the Diels - Alder reaction
a) furan b) pyrrole c) twophene d) none of these
10. Sulphaguanidine is used for
a) dysentery b) urinary infection c) antiseptic d) antipyretic