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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) 10
- 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) -NH<sub>2</sub>      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