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SUBJECT CODE NO:- B-2010
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. T.Y (Sem-VI)
Examination November/December- 2022
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. Attempt all questions.
 2. Figure to the right indicate full marks.
- Q. 1
- | | | |
|--|---|----|
| A) | Give the synthesis of Indole by using Fischer Indole synthesis and Bischler Napirlaski synthesis of Isoquinoline. | 10 |
| B) | Give the conversion of glucose in to mannose. | 10 |
| OR | | |
| A) | What are carbohydrates? Give the classification of carbohydrates with example | 10 |
| B) | What are heterocyclic compounds? Explain with mechanism Amination in pyridine. | 10 |
| Explain basicity of Pyridine, piperidine and pyrrole | | |
| | | |
| Q. 2 | A) i)What are Dyes? Give the classification of dyes based on chemical constitution. | 6 |
| | ii) Give synthesis of a)Methyl b) Congo red | 6 |
| | B) What are drugs? Give classification of drugs. | 8 |
| OR | | |
| | Write short note on (any four) | 20 |
| | a) Buna N rubber | |
| | b) Synthesis of Chloromycetien. | |
| | c) Mechanism of Mutarotation | |
| | d) Aromatic characteristics of pyrrole, furan and thiophene | |
| | e) Malachite green | |
| | f) Nylon 66 | |

Q. 3 Multiple choice questions

10

1 Sucrose is an example of

- a) monosaccharides b) Disaccharides c) Trisaccharides d) Polysaccharides

2 Number of asymmetric carbon atoms in fructose

- a) 1 b) 2 c) 3 d) 4

3 Pyridine reacts with KHH_2 (Potashamide) to form

- a) 2- Aminopyridine b) 3- Aminopyridine c) N-Aminopyridine d) None of these

4 The skraup synthesis is used to prepare

- a) Pyridine b) Quinoline c) Isoquinoline d) Indole

5 Condensation polymerization of ω -Amino caprolactum is

- a) Nylon- 66 b) Nylon-6 c) Terylene d) All of these

6 Which of the following is not chromophore?

- a) $\text{>C}=\text{C}<$ b) $-\text{C}\equiv\text{C}-$ c) $-\text{COOH}$ d) $-\text{OH}$

7 In pyrrole electrophilic substitution reaction occur at

- a) 2 b) 3 c) 4 d) None of these

8 Which of the following drug is analgesic and antipyretic?

- a) paracetamol b) Chloromycetin c) phenacetin d) Sulphaguanidine

9 Which of the following is not synthetic rubber?

- a) Neoprene b) Gutta percha c) Buna-N d) Silicon rubber

10 Natural rubber is polymer of

- a) Isobutylene b) chloroprene c) Isoprene d) Vinyl chloride