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SUBJECT CODE NO: B-2160
FACULTY OF SCIENCE AND TECHNOLOGY
B. Sc Pattern - 2013 (T.Y SEM VI)
Examination November / December 2025
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

Q1

- a) Explain the sigma and pi (π) molecular orbital picture of Furan. **10**
 b) Give the synthesis of Malachite green and crystal violet. **10**

OR

- c) What are carbohydrates? Give the classification of carbohydrates with example. **10**
 d) Explain properties, uses and synthesis of polyvinyl acetate. **10**

Q2

- a) Explain synthesis of Isoquinoline by Bischler - Napierlaski method **10**
 b) Give the interconversion of glucose to fructose. **10**

OR**Write short note (any four)**

- a) Basicity of pyridine and piperidine
 b) Condensation polymerisation
 c) Ideal drug
 d) Synthesis of Congo red
 e) Cellulose
 f) Sulphaguanidine

20**Q3 Multiple choice questions:****10**

- What is the hybridization of nitrogen in Pyridine?
 - sp^2
 - sp^3
 - sp^3d
 - sp
- In Chichibabin reaction which functional group is attached to pyridine ring.
 - $-OH$
 - $-NH_2$
 - $-COOR$
 - $-OR$
- In mutarotation $\alpha - D - \text{glucose}$ is converted into _____.
 - Sucrose
 - $\gamma - D - \text{Glucose}$
 - $\beta - D - \text{glucose}$
 - Mannose
- Fructose is an example of _____.
 - Monosaccharides
 - Disaccharides
 - Trisaccharides
 - Polysaccharides

5. which monomer is present in neoprene?
a. Isoprene
b. Chloroprene
c. Styrene
d. Vinyl Chloride
6. Which of the following is not natural polymer?
a. Cellulose
b. Protein
c. PVC
d. Polyisoprene
7. Alizarin is an example of _____
a. Azo
b) Styrene
c) Nitros
d) Anthraquinone
8. Paracetamol is _____
a. Analgesic
b. Anti-bacterial
c. Anti-Histamine
d. Tranquilizer
9. Which drug is used as an antiseptic?
a. Paracetamol
b. Phenacetin
c. Sulpha guanidine
d. None of these
10. Which of the following is not a chromophore.
a. $-NO$
b. $-NO_2$
c. $-N=N-$
d. $-NH - NH_2$

