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**SUBJECT CODE NO:- B-2144**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. T.Y (Sem.-VI) Examination OCT/NOV 2019**  
**Chemistry Paper -XVII**  
**( Organic Chemistry)**

[Time : 1:30 Hours]

[Total 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.

- Q.1** A) Give any two methods of preparation for pyrrole and furan. 10  
 B) What are carbohydrates? How are they classified. 10

**OR**

- C) Explain molecular orbital picture and Aromatic character of pyrrole. 10  
 D) What are polysaccharides? Write notes on starch and cellulose. 10

- Q.2** A) What are synthetic drugs? Give the synthesis of chloromycetin. 12  
 B) Describe synthesis and uses of Polyvinyl chloride and Nylon 6. 08

**OR**

Write short notes (Any four) 20

- i) Amination of Pyridine
- ii) Synthesis of methyl orange
- iii) Conversion of Glucose into mannose
- iv) Buna N-rubber
- v) Synthesis of crystal violet dye.
- vi) Properties and uses of polystyrene

- Q.3** Multiple choice questions. 10

1. Which of the following is example of Disaccharides?  
 a) Fructose      b) Glucose      c) Cellulose      d) Maltose
2. The monosaccharide obtained by hydrolysis of starch is  
 a) D-Glucose      b) Maltose      c) D-Galactose      d) D-ribose
3. Catalytic reduction of thiophene with Raney nickel gives \_\_\_\_\_.  
 a) N-butane      b) 2,3-Dihydrothiophene  
 c) 2,5-Dihydrothiophene      d) Tetra-hydro thiophene

4. Pyrrole on heating with sodium ethoxide and chloroform gives.
  - a) 2-chloro pyrrole
  - b) 3-chloro pyridine
  - c) pyrrole 2-aldehyde
  - d) 2-chloro pyridine
  
5. Which of the following is copolymer.
  - a) Teflon
  - b) Nylon-66
  - c) Polystyrene
  - d) Orlon
  
6. What Monomers are most commonly used in addition Polymerization?
  - a) Amides
  - b) Esters
  - c) Cycloalkanes
  - d) Alkenes
  
7. The water-solubility of dyes can be increased by introducing.
  - a)  $\text{SO}_3\text{Na}$  groups
  - b)  $\text{COOH}$  groups
  - c)  $\text{OH}$  groups
  - d) All of these
  
8. Which of the following is not an antipyretic?
  - a) Paracetamol
  - b) Aspirin
  - c) Barbituric acid
  - d) Phenacetin
  
9. Pyridine when heated with n-butyl lithium gives \_\_\_\_\_.
  - a) 2-n-butyl pyridine
  - b) 3-n-butyl pyridine
  - c) 2-Lithium pyridine
  - d) 3-Lithium pyridine
  
10. What is the hybridization of the oxygen in Furan?
  - a)  $\text{SP}$
  - b)  $\text{SP}^3$
  - c)  $\text{SP}^4$
  - d)  $\text{SP}^2$