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SUBJECT CODE NO: - 2010
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI)
EXAMINATION JUNE/JULY 2022
Chemistry Paper –XVII (Organic Chemistry)

[Time: 1:53 Hours]

[Max.Marks:50]

Please check whether you have got the right question paper.

- N.B 2) Figures to the right indicate full marks.
- Q.1 a) What are heterocyclic compounds? Give the skraup synthesis of Quinoline. 10
 b) Give conversion of glucose into fructose. Fructose into glucose. 10
 OR
 c) What are carbohydrates? Explain mutarotation with mechanism. 10
 d) Explain with mechanism the nitration and sulphonation of pyrrole. 10
- Q.2 a) What are dyes? Describe the synthesis of congo red and malachite green. 10
 b) Explain addition and condensation polymers with suitable examples. 10
 OR
 c) Write short notes on (any four) 20
 i) Fisher indole synthesis
 ii) Lactose
 iii) Synthesis of polystyrene
 iv) Properties of Ideal drugs
 v) Synthesis of polyvinyl chloride
 vi) Synthesis of sulphaguanidine
- Q.3 Multiple choice questions: 10
 1) Milk sugar is chemically known as
 a) Glucose b) Fructose
 c) Lactose d) Maltose
 2) -----is non-reducing sugar.
 a) Lactose b) Sucrose
 c) Fructose d) Glucose
 3) The carbon atoms in pyrrole are
 a) Sp^3 hybridized b) Sp^2 hybridized
 c) Sp hybridized d) None of these
 4) The product of Bischler-Napieralski reaction is -----
 a) Quinoline b) Isoquinoline
 c) Pyridine d) Pyrrole

- 5) What is used to a free radical polymerization?
- Benzyl chloride
 - Styrene
 - Benzoyl peroxide
 - Phthalic acid
- 6) The example of condensation polymer is -----
- Nylon -66
 - Nylon - 6
 - PVC
 - Polyethylene
- 7) Phenolphthalein shows pink colour in -----
- Acid solution
 - Alkali solution
 - Phenolic solution
 - Neutral solution
- 8) Paracetamol drug is used as -----
- Analgesic
 - Hyphotic
 - Sedative
 - None of above
- 9) A chemical substance which reduces temperature of body in fever is -----
- Anti-inflammatory
 - Pyretic
 - Antipyretic
 - Antiseptic
- 10) Pyrrole couples with benzene diazonium chloride to give-----
- 2-phenylazo pyrrole
 - 3- phenylazo pyrrole
 - 2-phenyl pyrrole
 - 2-amino pyrrole