

Date Planned : __ / __ / __	Daily Tutorial Sheet-5	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration : _____

61. Polyacrylonitrile is used in making:
 (A) Toys & Flexible pipes (B) Buckets & Bottles
 (C) Non-stick surface coated utensils (D) Commercial fibers
62. Which of the following polymer is an example of fibre ?
 (A) Silk (B) Dacron (C) Nylon-66 (D) All of these
63. The Copolymer of _____ and _____ is glyptal which is used in the manufacture of paints and lacquers
 (A) Urea, Formaldehyde (B) Ethylene glycol, Phthalic acid
 (C) Phenol, Formaldehyde (D) 1, 3-Butadiene and Styrene
64. The process of heat-softening, moulding and cooling to rigidity can be repeated for which plastics
 (A) Thermoplastics (B) Thermosetting plastics
 (C) Both (A) and (B) (D) None of the above
65. A compound of mol. wt. 180 is acetylated to give a compound of mol. wt. 390. The number of amino groups in the initial compound is :
 (A) 2 (B) 4 (C) 5 (D) 6
66. On heating with conc. H_2SO_4 , sucrose gives :
 (A) CO and CO_2 (B) CO and SO_2
 (C) CO, CO_2 and SO_2 (D) None of these
67. It is best to carry out reactions with sugars in neutral or acid medium and not in alkaline medium. This is because in alkaline medium sugars undergo one of the following changes:
 (A) Racemisation (B) Decomposition
 (C) Inversion (D) Rearrangement
68. Starch is a polymer of
 (A) Glucose (B) Fructose (C) Both (A) and (B) (D) None of these
69. The intermediate compound formed in the conversion of starch to glucose is :
 (A) Lactose (B) Sucrose (C) Maltose (D) Fructose
70. The helical structure of proteins is established by :
 (A) Peptide bonds (B) Dipeptide bond
 (C) Hydrogen bond (D) Vander Waal's forces
71. Which amino acid has aromatic ring ?
 (A) Alanine (B) Glycine (C) Tyrosine (D) Lysine

FOR QUESTIONS 72 - 73

- (A) If both assertion and reason are true and the reason is the correct explanation of the assertion.
 (B) If both assertion and reason are true but reason is not the correct explanation of the assertion.
 (C) If assertion is true but reason is false.
 (D) If the assertion and reason both are false. (E) If assertion is false but reason is true.

72. **Assertion :** The specific rotation of a freshly prepared solution of α – glucose decreases from $+ 112^\circ$ to 52.7° while that of β glucose increase from $+ 19^\circ$ to 52.7° .
Reason : The change in specific rotation of an optically active compound with time to an equilibrium value is called mutarotation.
73. **Assertion :** Proteins on hydrolysis produce amino acids.
Reason : Amino acids contain $-\text{NH}_2$ and $-\text{COOH}$ groups.
74. Molecular formula of pentahydroxy acid obtained when glucose is oxidised with Br_2 water is :
(A) $\text{C}_6\text{H}_{12}\text{O}_7$ **(B)** $\text{C}_6\text{H}_{12}\text{O}_8$ **(C)** $\text{C}_6\text{H}_{12}\text{O}_6$ **(D)** $\text{C}_6\text{H}_{10}\text{O}_6$
75. Which is polysaccharide ?
(A) Starch **(B)** Cellulose **(C)** Glycogen **(D)** All of these