

Biomolecules

Std. XII
CHEMISTRY

Time: 30 mts
Max.Marks: 25

- Sucrose is not
 - A disaccharide
 - A non reducing sugar
 - Hydrolysed to only glucose
 - Hydrolysed to glucose and fructose
- Fructose has no reaction with
 - HI and red P
 - Con. HNO_3
 - $(\text{CH}_3\text{CO})_2\text{O}$
 - Br_2/water
- _____ is present in considerable amount in the white matter of brain and nervous tissues
 - Galactolipid
 - Lecithin
 - Cephalin
 - Wax
- Which among the following is a disaccharide?
 - Sucrose
 - Glucose
 - Starch
 - Cellulose
- Glucose is an example of
 - Aldopentose
 - Aldohexose
 - Ketopentose
 - Ketohexose
- When glucose is treated with bromine water, the product formed in
 - gluconic acid
 - saccharic acid
 - n-hexane
 - penta bromo hexanal
- The structure of proteins is affected by
 - Strong acids
 - Strong bases
 - Enzymes
 - All the above
- In the basic medium an amino acid $\text{H}_2\text{N}-\text{CH}(\text{R})-\text{COOH}$ will exist as
 - $\text{H}_2\text{N}-\text{CH}(\text{R})-\text{COOH}$
 - $\text{H}_2\text{N}-\text{CH}(\text{R})-\text{COO}^-$
 - $\text{H}_3\text{N}^+-\text{CH}(\text{R})-\text{COOH}$
 - $\text{H}_3\text{N}^+-\text{CH}(\text{R})-\text{COO}^-$
- A dipeptide will not contain
 - Two peptide units
 - Portions of two amino acids
 - An amino group
 - Salt like structure
- When starch is heated between $200-250^\circ\text{C}$, the product formed is
 - Glucose
 - Maltose
 - Dextrin
 - Cellulose
- Among the following reagents, which cannot be used for the conversion of glucose to gluconic acid?
 - Tollen's reagent
 - Fehling's reagent
 - Con. HNO_3
 - $\text{Br}_2/\text{H}_2\text{O}$
- Inversion of sucrose involves
 - Oxidation
 - Reduction
 - Polymerisation
 - Hydrolysis
- Carbohydrates are
 - Polhydroxy aldehydes
 - Polyhydroxy ketones
 - Polyhydroxy acids
 - Both a and b

