

# Plant Physiology and Biochemistry

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
The general formula of monosaccharides is	$C_nH_{2n}O_n$	$C_{2n}H_{2O_n}$	$C_nH_{2O_{2n}}$	$C_nH_{2n}O_{2n}$
A triose sugar is	Glycerose	Ribose	Erythrose	Fructose
Starch and glycogen are polymers of	Fructose	Mannose	$\alpha$ -D-Glucose	Galactose
The carbohydrate reserved in human body is	Starch	Glucose	Glycogen	Inulin
Which of the following is not reducing sugar?	Lactose	Maltose	Sucrose	Fructose
Which of the following is not a polymer of glucose?	Amylose	Inulin	Cellulose	Dextrin
Amylose contains glucose units	100–200	200–300	300–400	500–600
A pentose sugar is	Dihydroxyacetone	Ribulose	Erythrose	Glucose
Polysaccharides are	Polymers	Acids	Proteins	Oils
The number of isomers of glucose is	2	4	8	16
The monosaccharide units are linked by 1 → 4 glycosidic linkage in	Maltose	Sucrose	Cellulose	Cellobiose
The stable ring formation in D-Glucose involves	C-1 and C-4	C-1 and C-2	C-1 and C-5	C-2 and C-5
A disaccharide linked by $\alpha$ -1-4 Glycosidic linkages is	Lactose	Sucrose	Cellulose	Maltose
The general test for detection of carbohydrates is	Iodine test	Molisch test	Barfoed test	Osazone test
Cellulose is made up of the molecules of	$\alpha$ -glucose	$\beta$ -glucose	Iodine Test	Both 2 and 3
Amylose is a constituent of	Starch	Cellulose	Glycogen	Sucrose
$\alpha$ -Glycosidic bond is present in	Lactose	Maltose	Sucrose	Both 2 and 3
Cane sugar is known as	Galactose	Sucrose	Fructose	Maltose

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Reducing ability of carbohydrates is due to	Carboxyl group	Hydroxyl group	Enediol formation	Ring structure
Starch and glycogen are polymers of	Fructose	Mannose	$\alpha$ -D-Glucose	Galactose
A polymeric unit of starch which has a branched structure is	Glucose	Amylopectin	Isomaltose	Amylose
Which of the following statements is most correct?	Carbohydrates are hydrates of carbon	Carbohydrates correspond to general formula $(CH_2O)_n$ .	Carbohydrates are polyhydroxyaldehydes and their derivatives	Carbohydrates correspond to general carbon
The primary source of synthesis of carbohydrates in plants is,	Fat	Protein	CO <sub>2</sub> of atmosphere through photosynthesis	Lipids
Which of the following is not an oligosaccharide?.	Inulin	Maltose	Sucrose	Raffinose.