# **Carbohydrates**

# **Multiple Choice Question on Carbohydrates**

# A positive Benedict's test is not given by

A.Lactose

B.Maltose

C.Sucrose

D.Glucose

#### The most important epimerof glucose is

A.Arabinose

B.Fructose

C.Galactose

D.Xylose

# Q28 Analogue of starch is

A.cellulose

B.glycogen

C.sucrose

D.pentose

## Q 29. Glucose is a monosaccharide and is a

A.hexose

B.pentose

C.furanose

D.sucrose

#### Q30. Linkage between two monosaccharides, is

A.ionic bond

B.covalent bond

C.hydrogen bond

D.glycosidicbond

Q31. If carbonyl group is an aldehyde monosaccharide is

A.ketose

B.Tetrose

C.aldose

D.Maltose

#### Q32. 3 carbon monosaccharides are called as

A.trioses

B.Tetrose

C.pentose

D.hexoses

#### Q33. Starch is a glucose polymer in which glucopyranoseunits are bonded by

A.alpha linkages

B.beta linkages

C.gamma linkages

D.none of above

#### Q34. The minimum number of carbons in monosaccharide is

A.1

B.2

C.3

D.4

## 35 Examples of Epimers

A. Glucose & Galactose

B .Glucose & Ribose

C. Mannose & Glucose

D .a & c

# Q36. Majority of the monosaccharides found in the human body are of

A.L-type

B.D-type

C.DL-types

D.None of the above

#### Q37. For hydrolysis of starch, enzyme used is

A.glycosylase

B.amylase

C.polymerase

D.helicase

#### Q38. Sugar that makes up RNA is

A.ribose

B.deoxyribose

C.glucose

D.pentose

#### Q39. Maltose exists in

A.α configuration

B.β configuration

C.y configuration

#### Dall of above

#### Q40. On heating starches are

A.Insoluble in water

B.Soluble in water

C.becomes a regular geometrical shape

D.No effect of heat

#### Q41. Units of carbohydrates which cannot be further hydrolyzed to simpler compounds are

A.disaccharides

B.polysaccharides

C.monosaccharides

D.Oligosaccharides

#### Q42. A monosaccharide switches from an open chain to a cyclic form through

A.hydroxylation

B.carbation

C.nucleophilicaddition

D.hydrogenation

#### Q43. Formula for monosaccharide is

A.(CH2O)n

B.CnH2n

C.both A and B

D.none of above

#### Q44. Hydrolysis of glycoside bond involves

A.breakdown of glycosidicbonds

B.formation of glycosidicbonds

C.formation of hydrogen bond

D.formation of ionic bond

#### Q45. 6 carbon rings have suffix

A.glucose

B.fructose

C.pyranose

D.pentose

#### Q46. If OH group is to left of last stereocentercarbon than configuration is

A.D

B.L

C.α

D.β

#### Q47.Simplest form of sugars are usually

A.colorless

B.water soluble

# Q48. Lactose is an example of

A.polysaccharides B.monosaccharides C.Disaccharides D.Oligosaccharide

# Q49. A method of writing structural formula of carbohydrates to represent monosaccharide's cyclic structure with a simple 3D perspective is known as

A.Haworth projection B.Structural formula C.Empirical formula D.Simple formula

# Q50.When mixed with iodine glycogen turns

A.blue B.purple C.pink D.red

Question	Option	Answer
26	С	Sucrose
27	С	Galactose
28	В	Glycogen
29	Α	Hexose
30	D	Glycosidicbonds
31	С	Aldose
32	Α	Trioses
33	Α	Alpha linkages
34	С	3
35	D	a & c
36	В	Dtype
37	В	Amylase
38	Α	Ribose
39	Α	α configuration
40	В	Soluble in water
41	С	monosaccharides
42	С	Nucleophillicaddition

43	Α	(CH2O)n
44	Α	Breakdown of
		glycosidicbonds
45	С	Pyranose
46	В	L
47	D	All of the above
48	С	
		disaccharides
49	Α	Haworthprojections
50	D	red

: Which of the following are obtained from fruits, vegetables, and cereals?

- 1. monosaccharides
- 2. sucrose
- 3. cellulose
- 4. starch

Ans: A

Which of the following is used to make rectified spirit by fermentation process?

- 1. cellulose
- 2. starch
- 3. glucose
- 4. fructose

Ans: B Starch

The molecular formula of fructose is

- 1. C12H22O11
- 2. C18H32O16
- 3. C6H12O6
- 4. C7H14O7

Ans: C6H12O6

Upon hydrolysis oligosaccharides form

- 1. 1 to 8 molecules of simple sugars
- 2. 10 to 12 molecules of simple sugars

- 3. 5 to 8 molecules of simple sugars
- 4. 2 to 9 molecules of simple sugars

# Ans: D 2 to 9 molecules of simple sugars

# Starch is an example of?

- 1. monosaccharides
- 2. oligosaccharides
- 3. polysaccharides
- 4. lipids

Ans: 3 polysaccharides

# Raffinose is an example of

- A. monosaccharides
- B. disaccharides
- C. polysaccharides
- D. Trisaccharides

**Answer D**