26 JUN FRIDAY

Carbohydrates

Definition - Polyhydroxy aldehyde or Ketones or compounds which produce them on hydrolysis

~~cd~~ classification of carbohydrates

classified in to 3- groups

- monosaccharide
- Disaccharide (Di - two)
- Polysaccharide

monosaccharide

⇒ simplest group of carbohydrates & are often referred to as simple sugar which

⇒ can not be further hydrolysed

ex Glucose, fructose, galactose

monosaccharides ~~are~~ consists of a single polyhydroxy aldehyde or Ketone units - they are simplest monosaccharides which can not be

further hydrolysed.

ex glucose, fructose, Galactose

JUN / SATURDAY 27

Disaccharide

on hydrolysis product two molecule of the same or different monosaccharids

ex Sucrose, Lactose, mannose

↓ ↓

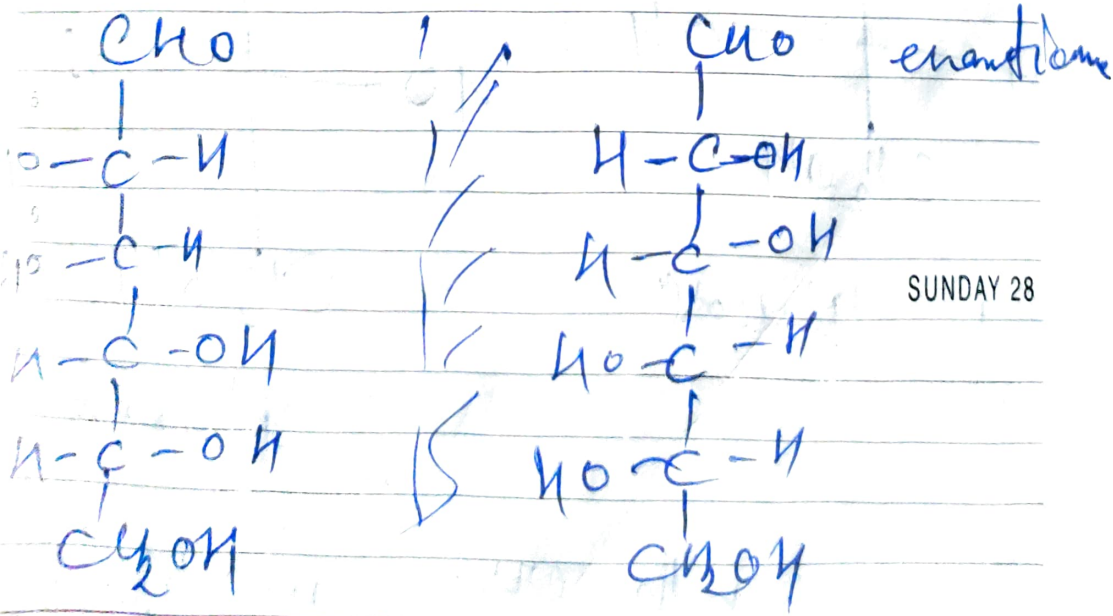
glucose + fructose glucose + galactose

↓

Glucose + Glucose

Polysaccharids :— (poly - many)

structure of D - mannose

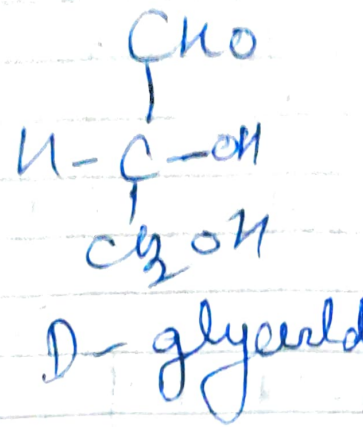


D - mannose L - mannose

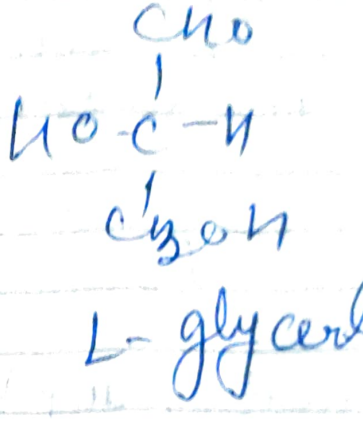
SUNDAY 28

29 JUN MONDAY

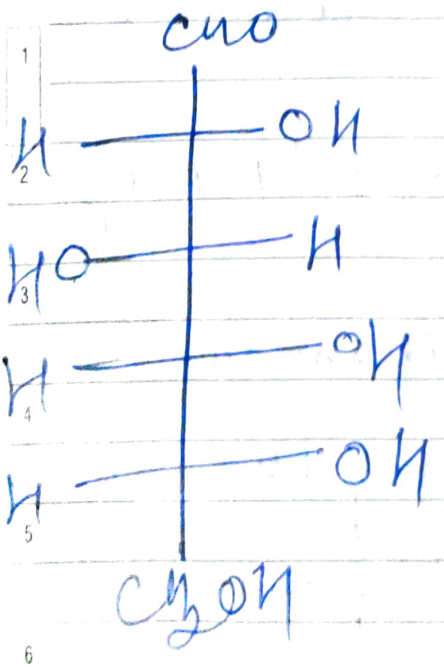
Structure of glucose:-



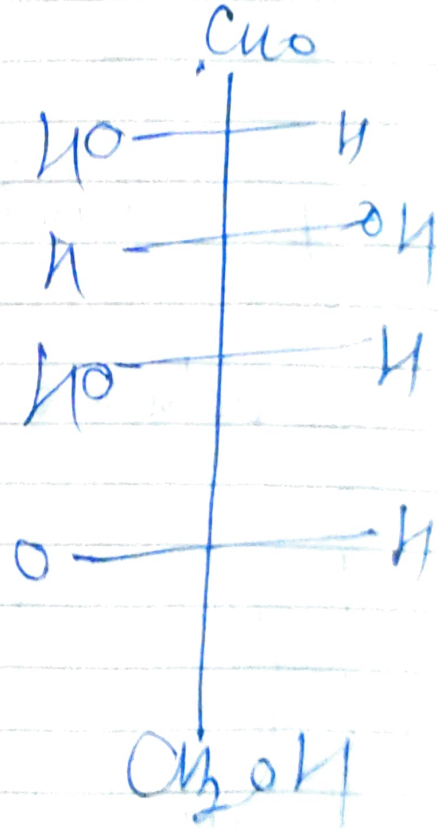
D-glyceraldehyde



L-glyceraldehyde



D-glucose

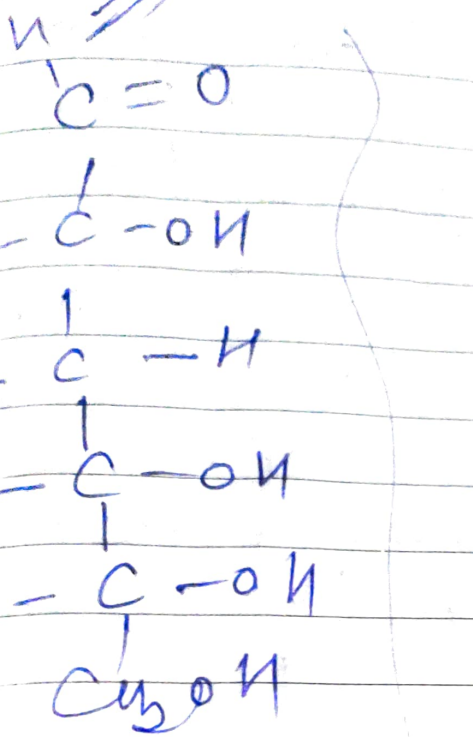


L-glucose

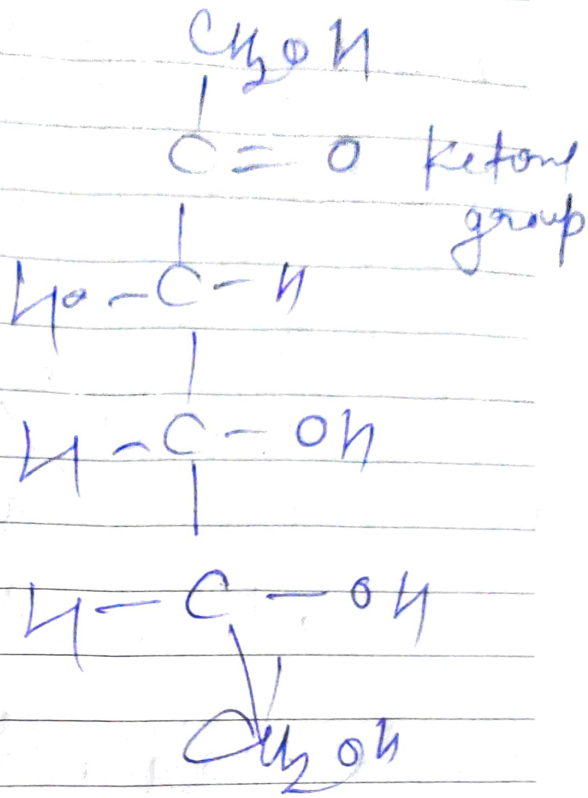
Enantiomers- non superimposable mirror image

2015

aldehyde group



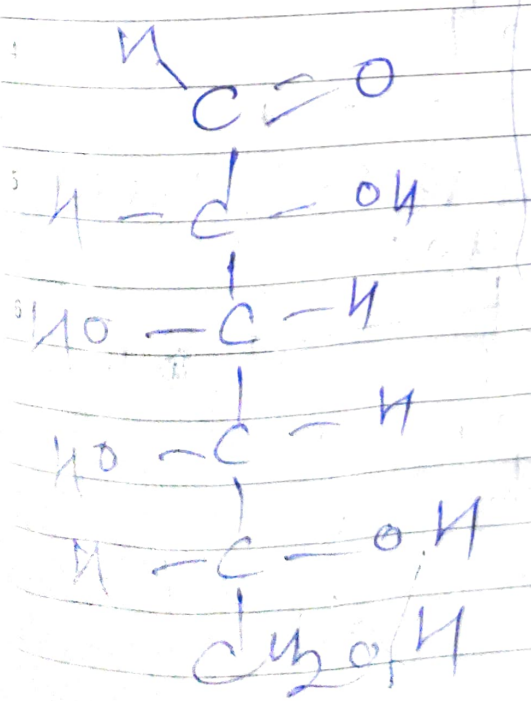
glucose
(an aldohexose)

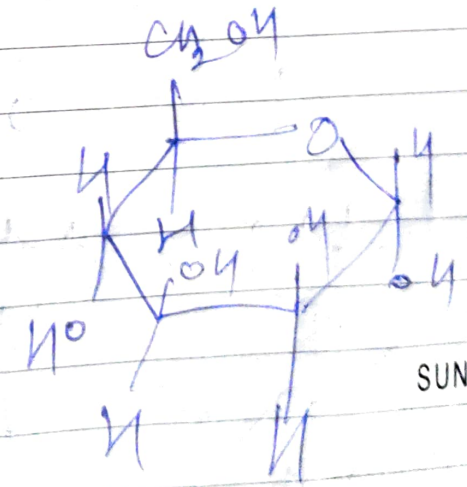


ketone group

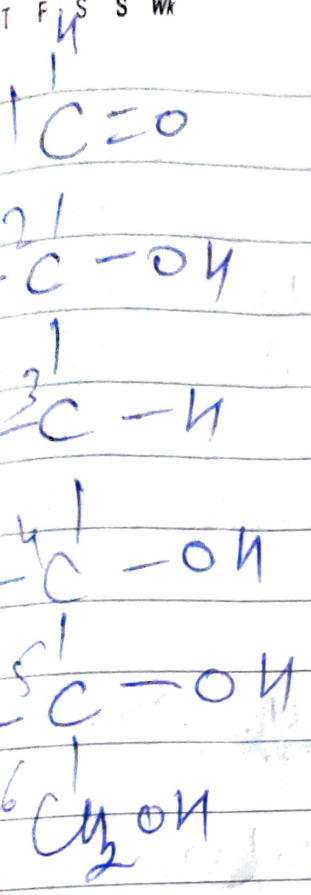
fructose
(a ketohexose)

Galactose:-

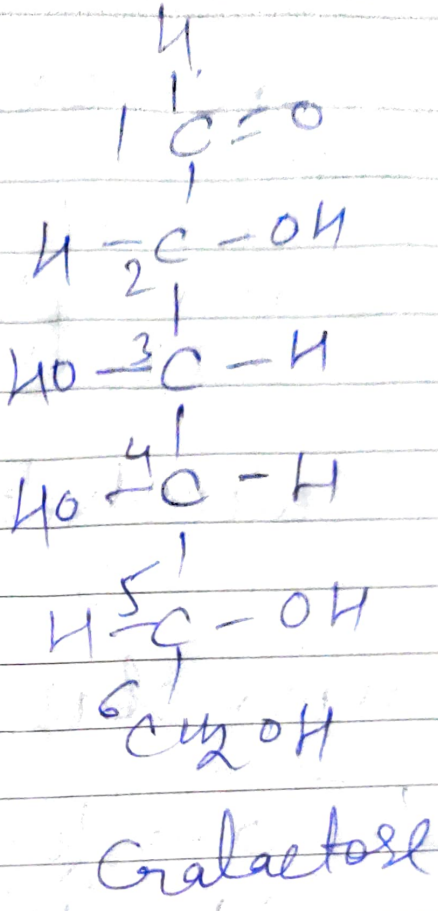




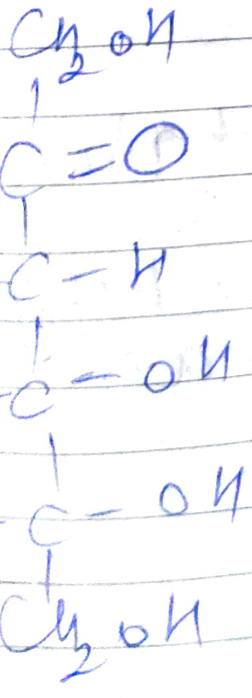
SUNDAY 21



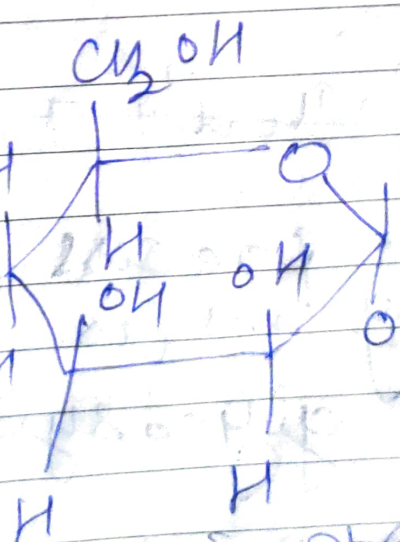
glucose



Galactose



fructose



glucose

SUNDAY 05