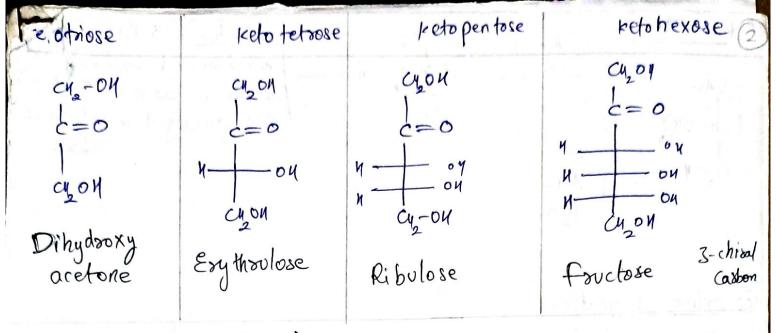
terribohydrate: optically active polyhydrosy aldelyde or ketone. Ly general formula -> Cx (4,0) y eq. quese (64,206) Exception: Rhamnose (Coll205) Aldutoisse Aldoherose Aldopentose Aldo tetrase CKO CHO CKO CHO H _ TON H on 4 - 04 N----OH CYOH CYZOU Cy OH CUZOH 4-charal Glycexal carbon D - Ribose D-Glucose D-Erythrose CKO CHO Glycexald-CKO ou - 4 ehyde n-on cu201 Cujou CHON L-Engthrose L-Ribose 1- Glurose CHO и — оч оч — и и — оч CHO Clo и — оч оп — х и — оч и — и CUZOU Cyon C4204 D- Xylose D-Threade D-Galactose CUO CHO CKO 04 H C420 U Cyzon L- Xy lose CHOH L- Threose L - Galactose



Oligosaccharides - (2 to 10)

- · Disaccharides (on hydrolysis yield two units)
- · Trisaccharides On hydrolysis yield three units)
- · Tetra saccharides (On hydrolysis yield four units)

& . Surrose, Maltose, Lactose

& Raffinose

8- stachyose

Carbohyd rates

Sugars · Carbohydrates which are crystalline, sweet to taste & soluble in water

Eg. Monosaccharides & Oligo -.

Non Sugars

· Casbohydrates which are ampriphous, tasteless & insoluble in coates.

Eg- Polysaccharides

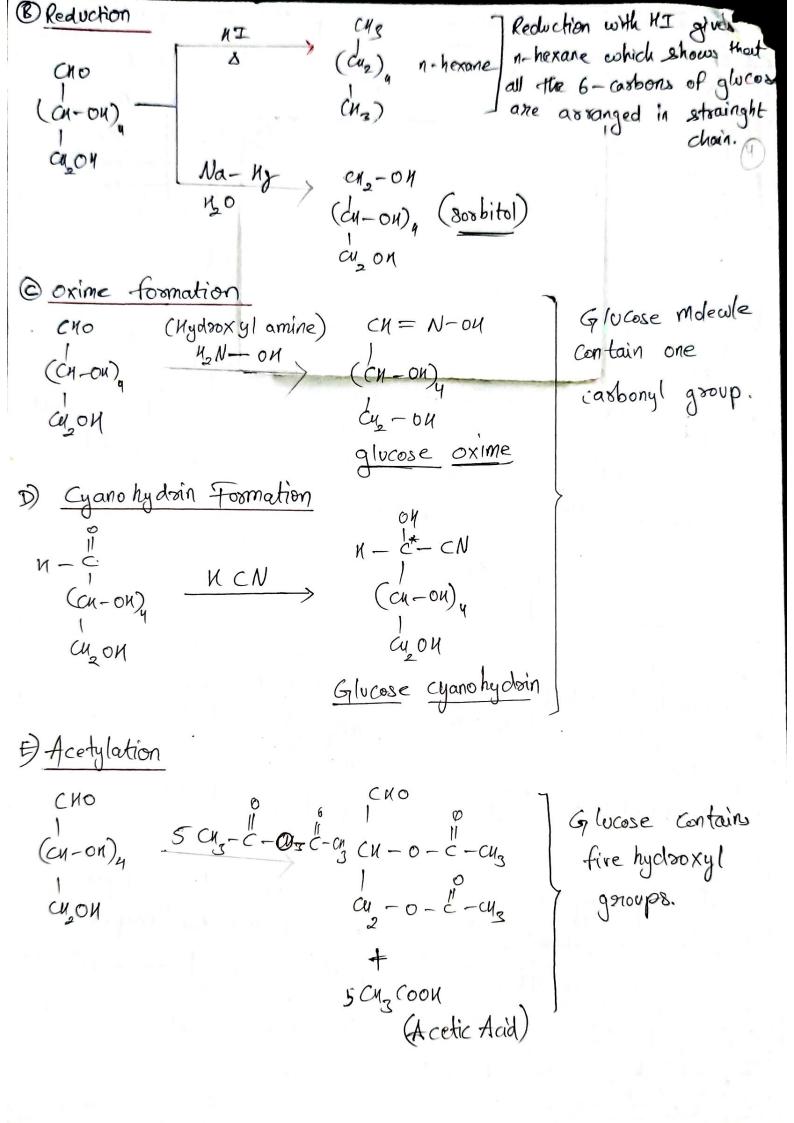
Reducing sugars · Reduces the fehling's sol" & Tollor's reagent.

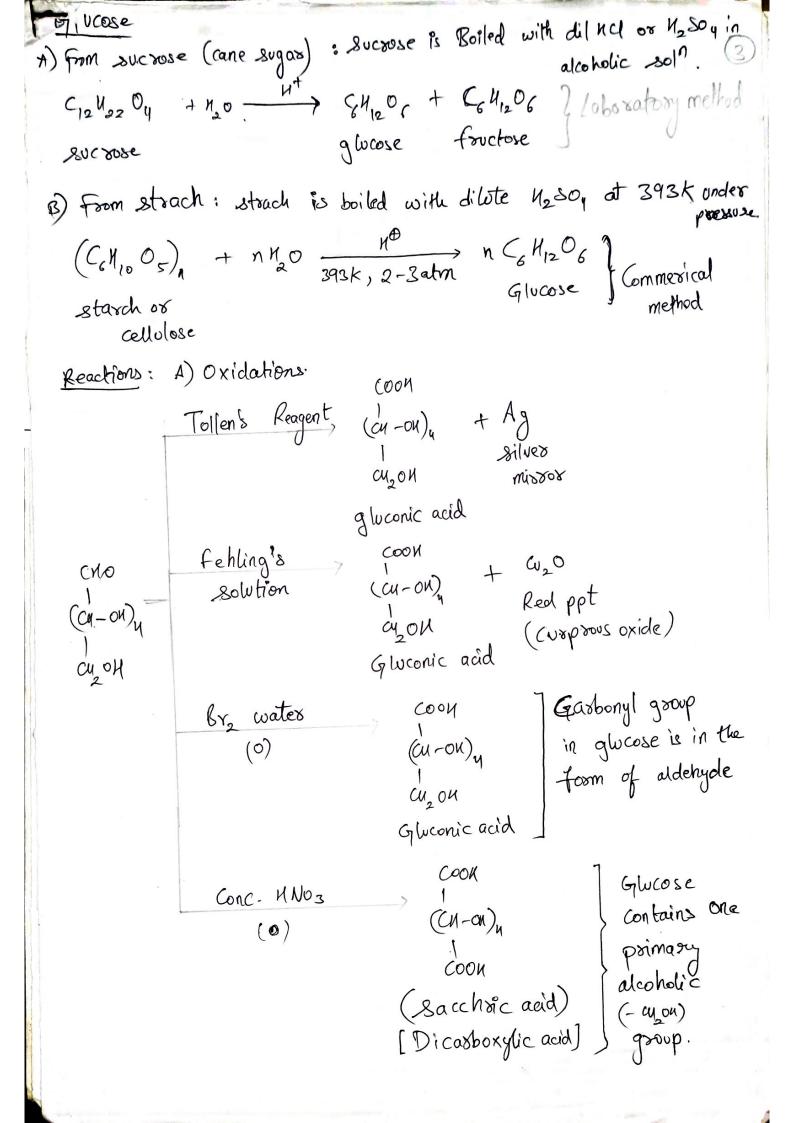
· free carbonyl groups present Eg. Maltose, Lactose, Frictose, Glucose, Gloctose

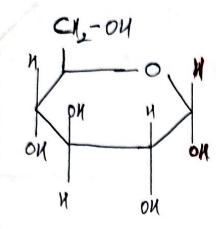
Non-Reducing sugar Not Reduce the Reagent

· free carbonyl group ABSENT

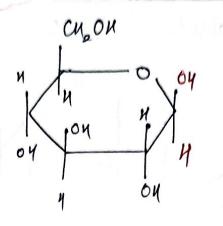
eg. Sucrose, Cellulose, starch





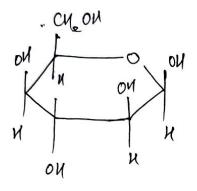


X-D(+) gluco pyranose



B-D(+) glucopyranose

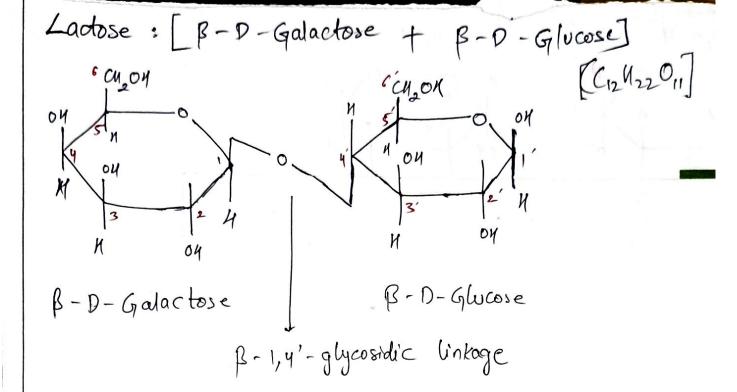
0100116



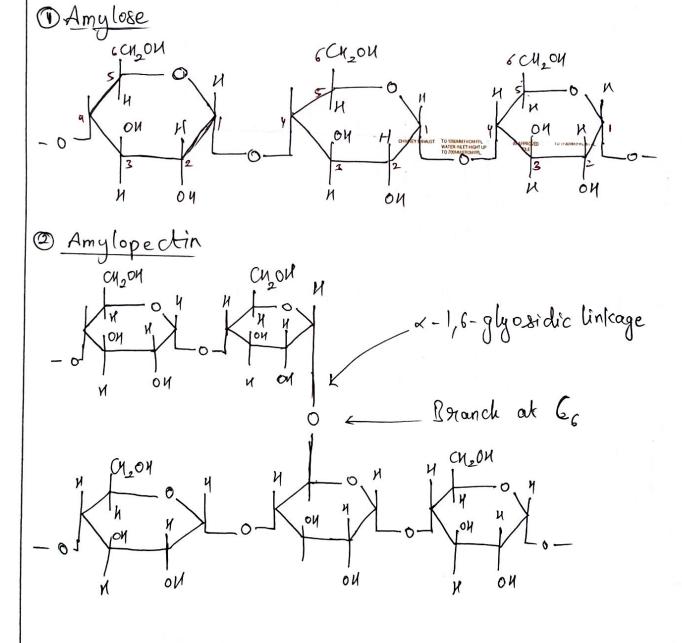
B-Le glucopyranose

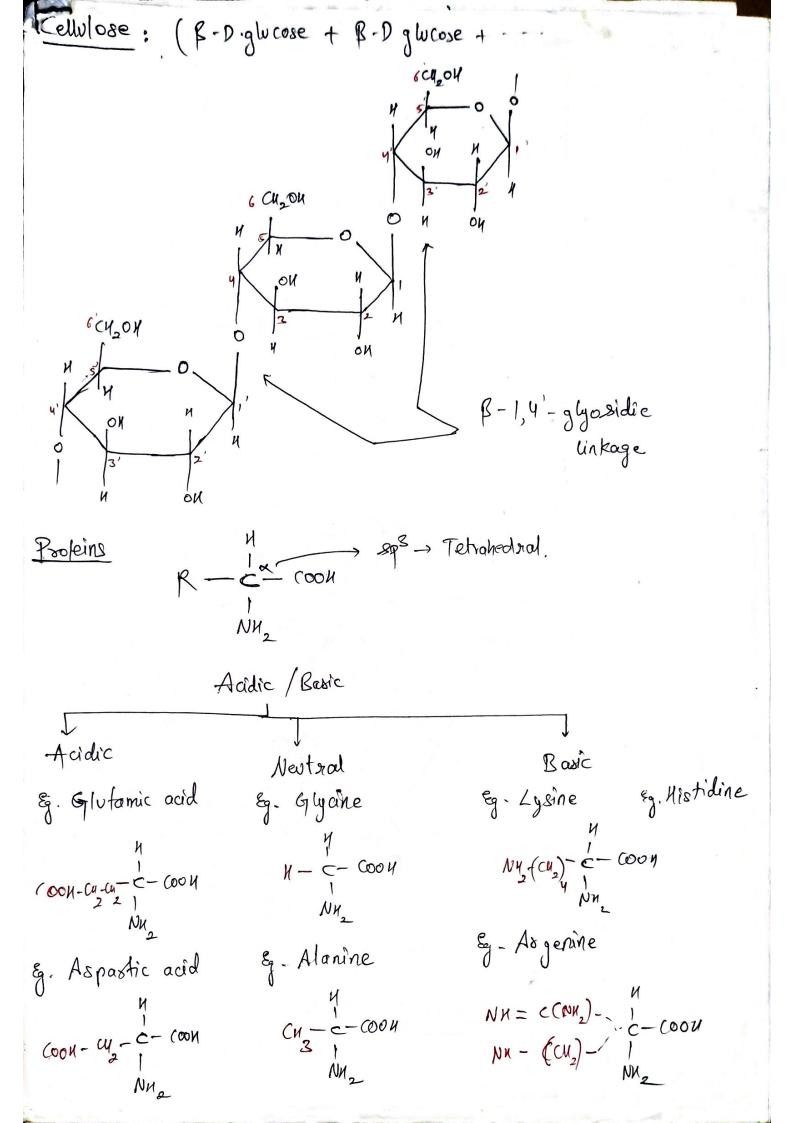
d - D & fructofuranose

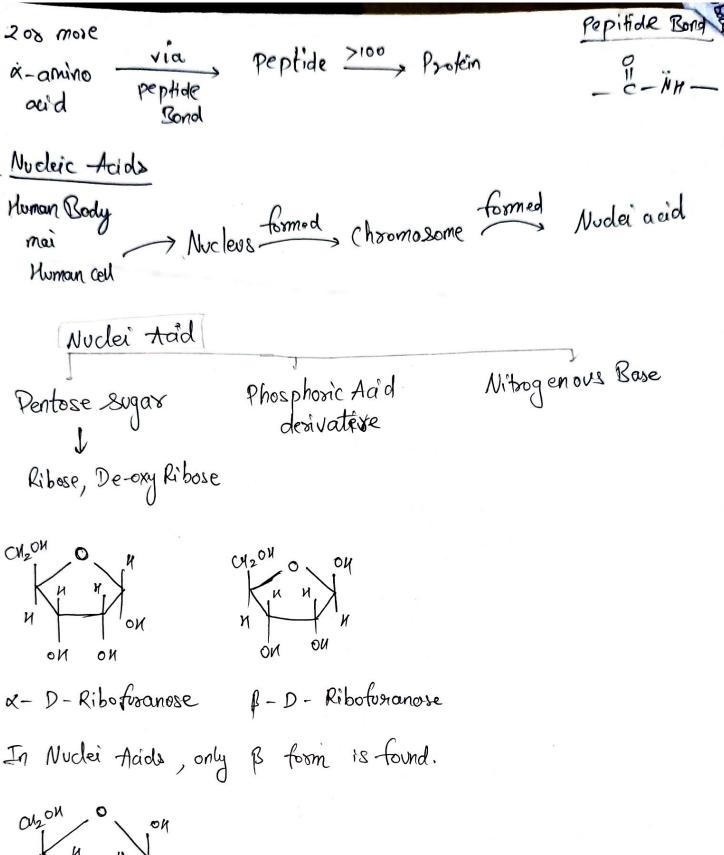
B-D-Galactose



Polysaccharides



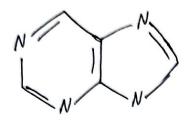




B - D - Deoxy Ribose

Nibrogen Base = 5

Desivative of pusine & pysimidine



pusine

py si midin e

1 Adenine -> C5 45 Ns

② Guarine → C5 45N50

3 Cytosine Cy Ms N20

(4) Usocil - Cyly N2 O2

5) Thymine -> CoNcN202

Nucleo sides -> Sugart Base

Nucleo fides -> Sugar & Base + Phosphoester

RNA -> D-ribose -> A, C, G, U

DNA - D-2-deoxyribose - A,G,C,T

> One mole of stachyose on hydrolysis yields ->
I mole of glurose + I mole of fouctose + 2 mole of galactose.

> On prolong Heating with MI glucose gives - n-hexane

Raffinose is trisacchamicle - Grape sugar - Glucose
The text anomers of glucose refers to isomers of glucose that differe in configuration at coolon one (C1)
-> Sweelest Sugar -> Frictose
-> Amy lose Amy lopechin
Owaler soluble O Insoluble
15-20% of Storch 080-85% of starch
3 long unbranched 1 1 long branched
GCI-C4 - glyosidic (4) C1-C4 glyosidic linkage &
lin kage CI-CB for branching
3 x-D-gwcopyranose 3 x-D-gwcopyranose
the state of the s
Protein: 6,0,4, N, O aprille ut British
agidic Basic Newhal
es Glutamicaeid Lysine Glyeine
Aspartic acid Argenine Alanine
Mistidine
-> Exception: Only amino acid -> optically Inactive is
Glycine 4-2-coon
OSM FAIR NOW WORLD A FAIR DO SO THE STATE OF
- Vitamin B complex is not fat solvble complex
Nuclei acids, the sequence is base - sugar - phosphate
Nuclei acids -> polyment -> nucleo tides Structure of DNA -> double helix
Structure of DNA - acoust replication
-> ONA multiplication is called replication
-> stackyose -> contains 24 C
-> To casbon two o'se attached has we anomesic
Carbon xel belles is easily principle plantiles and
() d-helix demos starbardadio
22224241
structure, B-pleated sheet

major source of energy - carbolydration.
Ribose does not give monosacehoide unit ou hydroysis
During preparation of glucose from Strach challe poweder is added to the treachion mixture to neutralise excess of sulphuric acid
anoralex is added to the treachion mixture to
nontralise excess of sulphunic acid
TO SUSCIT
-> Starch is NOT a sugar -> Cellobiose obtained from partial hydrolyis of cellulare.
- Diassachonde present in milk is Lactose
-> Essential constituent of plant cell wall is cellulose.
-> Cellulose is used in manufactured of paper.
-> Proleing are high molecular weight polymors mainly
containing the elements C, H, N, O, 8
-> peptide viuloage : p
-c-NN
- Numan insulta: - is Mexamer
-> # Exception: Insolin is protein -> having only 51 amino
-> fibrous Globular
of Keratin (hours) Harmoglobin, Insulin
collagen (sking ba) Albuman, Enzymes
Insolver de de de de la destaction de la
Just Company - Jaing - The Mankers My Charles Internal
- Proteins by action of treat & chemical reagents like alcotol from denaturated proteins
form de naturaled proleins
-> frimary studuose remains intest on Denaturation.
-> Stanch & cellulose have some empirical formula
-> Naturally occurring glucose is called dextrose
-> Carbony drate consists of C, 4 & 0
> Castohydrate which somes as reverse glucose in body is glycogen
body is gyreogen