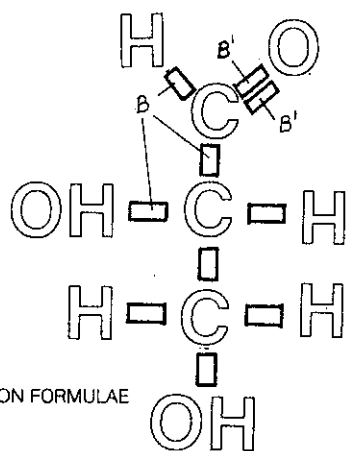


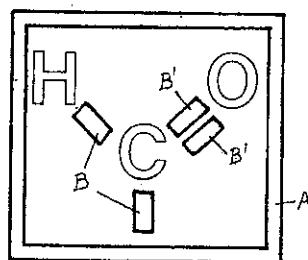
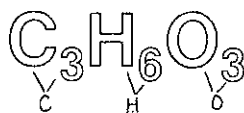
CARBOHYDRATES I.

L-GLYCEROSE ISOMER*
EMPIRICAL FORMULA $C_3H_6O_3$

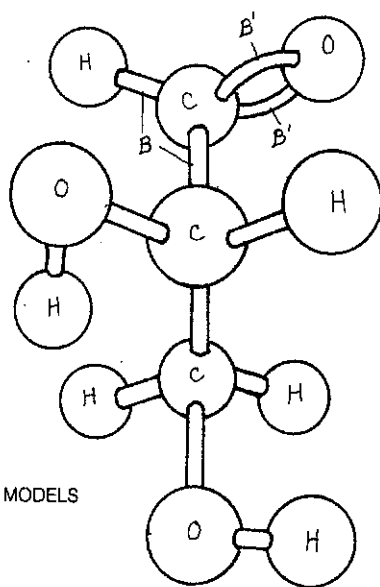
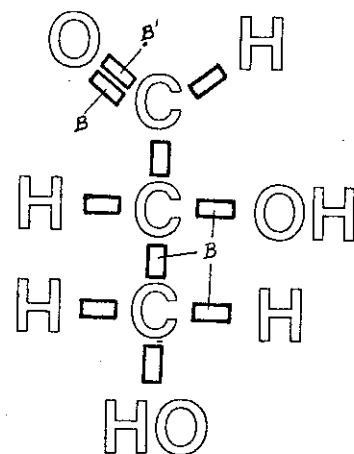
D-GLYCEROSE ISOMER*



FISCHER PROJECTION FORMULAE

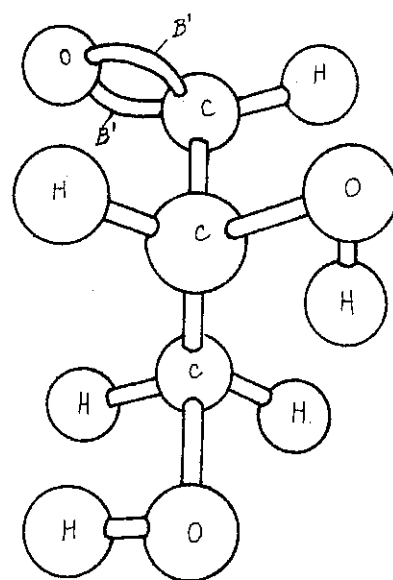


ALDEHYDE_A
CARBON_C
HYDROGEN_H
OXYGEN_O

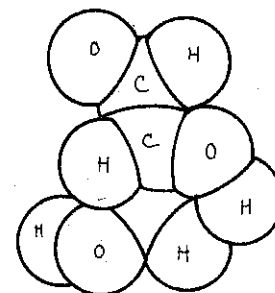
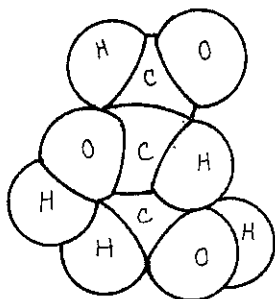


BALL-AND-STICK MODELS

SHARED
ELECTRONS*
ONE PAIR_B
TWO PAIRS_{B'}



SPACE-FILLING MODELS



Name _____

Color Code for Carbohydrates I, II, & III

*Any Title marked with a * - Pencil Grey*

Carbohydrates I

Aldehyde – Blue (for the frame of the box)

Carbon – Black

Oxygen – Red

Hydrogen – Yellow

One Pair (single bond) – Light green

Two Pairs (double bond) – Dark green

Carbohydrates II

Carbon – Black

Oxygen – Red

Hydrogen – Yellow

Chemist's Eye – Light Blue

Carbohydrates III

Sucrose – Purple

Glucose – Light Green

Galactose - Brown

Fructose – Orange

Dehydration Condensation – Red

Water – Light Blue

Maltose (dotted line frame) – Dark Green

Hydrolysis – Dark blue

Sucrose (dotted line frame) - Purple

Lactose (dotted line frame) – Yellow

Amylose (entire box)– Dark Green

Amylopectin (entire box) – Green/Yellow

Glycogen (entire box) – Yellow

Cellulose (entire box) - Pink

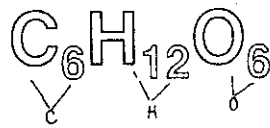
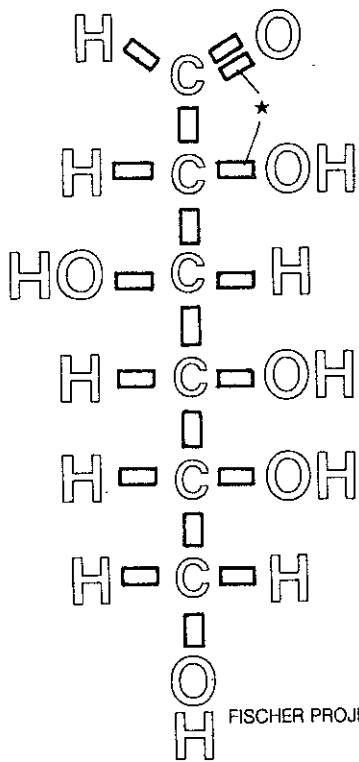
CARBOHYDRATES II.

D-GLUCOSE*

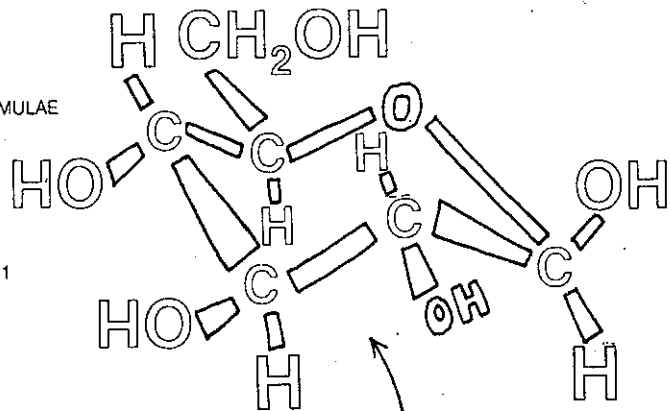
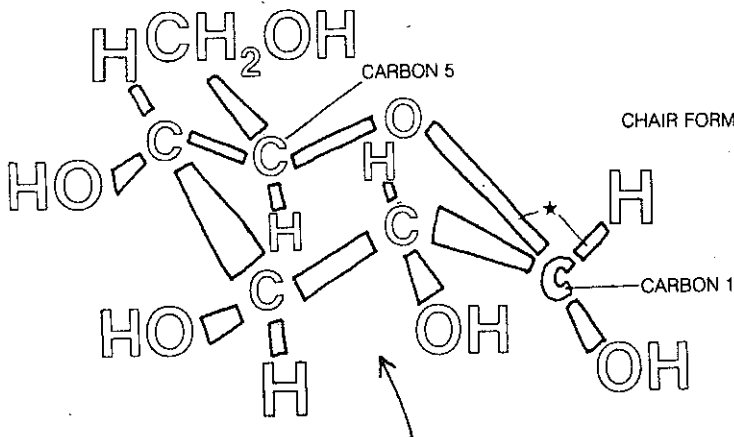
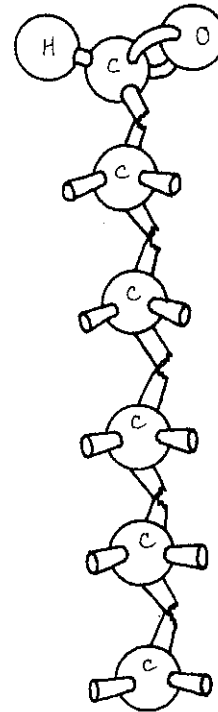
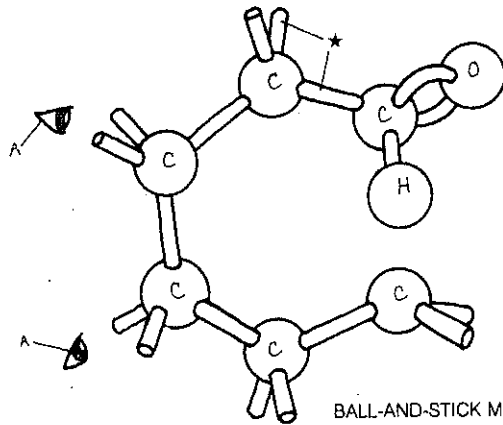
CARBON: C

HYDROGEN: H

OXYGEN: O

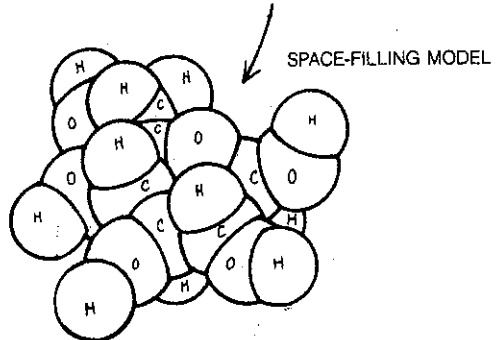
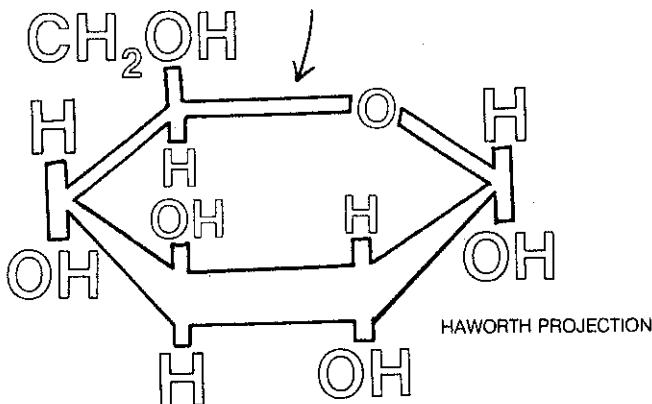


CHEMIST'S EYE_A



α -D-GLUCOSE*

β -D-GLUCOSE*



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Hydrogen – Yellow

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Carbohydrates II

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Oxygen – Red

Hydrogen – Yellow

Chemist's Eye – Light Blue

Carbohydrates III

Sucrose – Purple

Glucose – Light Green

Galactose - Brown

Fructose – Orange

Dehydration Condensation – Red

Water – Light Blue

Maltose (dotted line frame) – Dark Green

Hydrolysis – Dark blue

Sucrose (dotted line frame) - Purple

Lactose (dotted line frame) – Yellow

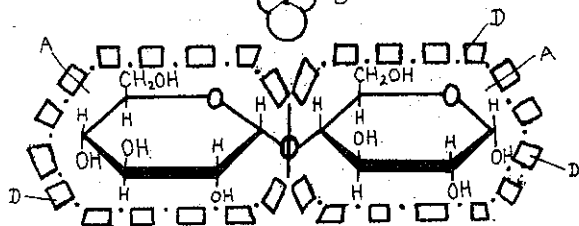
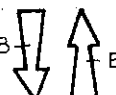
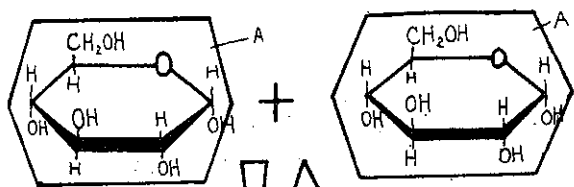
Amylose (entire box)– Dark Green

Amylopectin (entire box) – Green/Yellow

Glycogen (entire box) – Yellow

Cellulose (entire box) - Pink

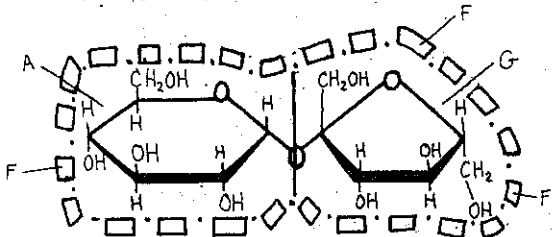
CARBOHYDRATES III.



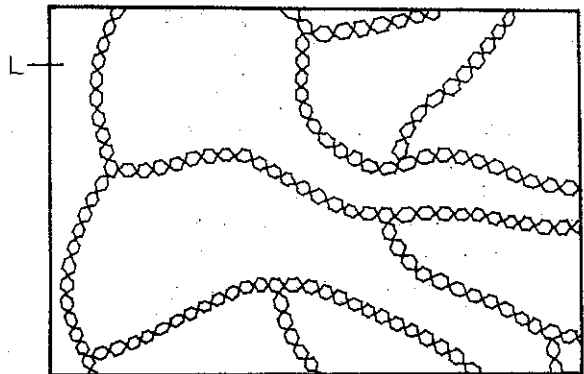
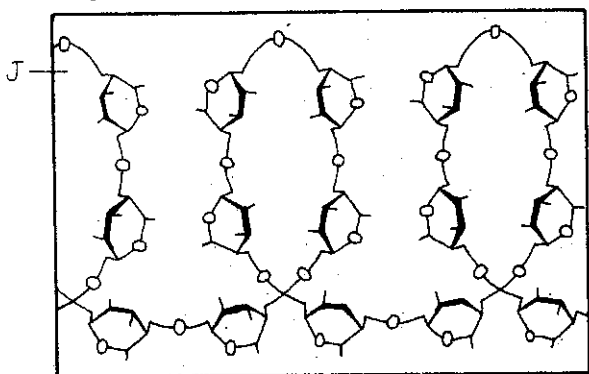
DISACCHARIDES★

SUCROSE:

GLUCOSE_A + FRUCTOSE_G



POLYSACCHARIDES★



GLUCOSE
(MONOSACCHARIDE)_A

DEHYDRATION

CONDENSATION_B

WATER_C

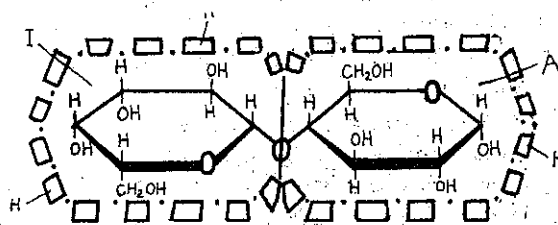
MALTOSE

(DISACCHARIDE)_D

HYDROLYSIS_E

LACTOSE:

GALACTOSE + GLUCOSE_A

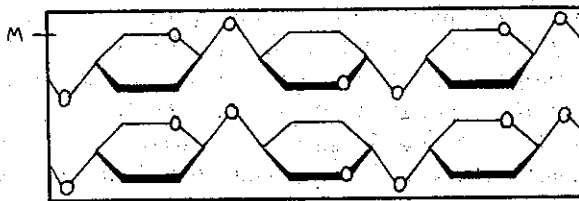
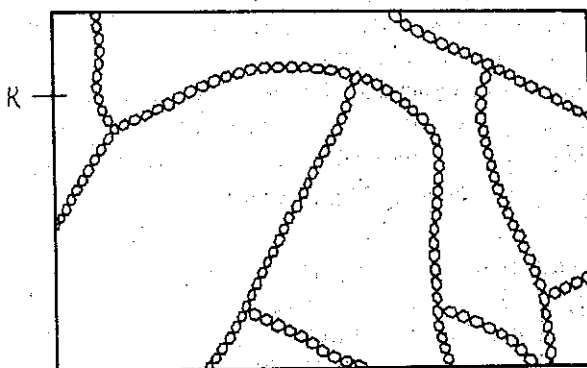


AMYLOSE,

AMYLOPECTIN_K

GLYCOGEN,

CELLULOSE_M



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Water – Light Blue

Maltose (dotted line frame) – Dark Green

Hydrolysis – Dark blue

Sucrose (dotted line frame) - Purple

Lactose (dotted line frame) – Yellow

Amylose (entire box)– Dark Green

Amylopectin (entire box) – Green/Yellow

Glycogen (entire box) – Yellow

Cellulose (entire box) - Pink