

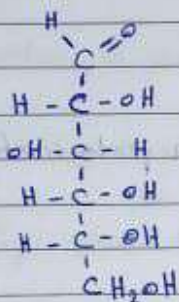
DATE: _____

SUBJECT: _____

Carbohydrates

Fisher projection form :-

D-Glucose, hexose ($C_6H_{12}O_6$)



hint:

① if the (OH) in the bottom of the chiral center, point to the right the sugar is D as D-Glucose

② if the (OH) in the bottom of the chiral center, point to the left the sugar is L as L-Glucose

① (Glucose) - dextrose : rotate the plane of light to the right

Glucose properties:

- ① most common monosaccharide
- ② is an aldehyde
- ③ naturally occurring as D-form. (in aqueous solution exists as L-, D-, α - and β anomers in an equilibrium)
- ④ found in animal's blood, fruit, honey, some vegetables
- ⑤ commercially prepared from starch of corn, and other cereals