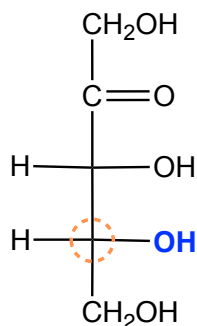
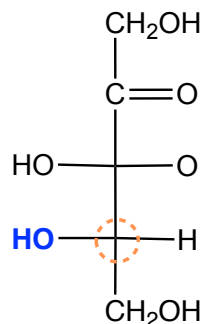


CONCEPT: D VS L ENANTIOMERS

- Monosaccharides can exist as either ____-enantiomer or ____-enantiomer.
- D vs L stereochemistry is determined by the **penultimate** C or ____ chiral C.
 - D-enantiomer:** penultimate **-OH** on ____ side.
 - L-enantiomer:** penultimate **-OH** on ____ side.



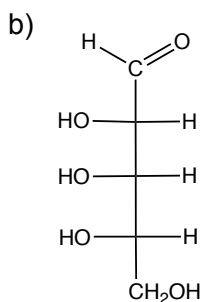
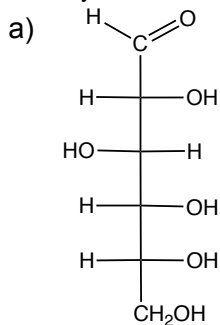
D-ribulose



L-ribulose

- Most carbohydrates found in nature are ____-sugars.

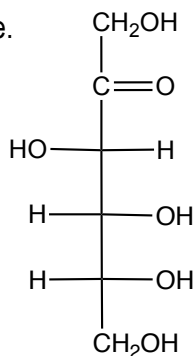
EXAMPLE: Identify each monosaccharide as D or L enantiomer.



Epimers

- Diastereomers that differ in configuration of only ____ chiral center.

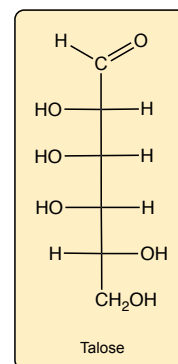
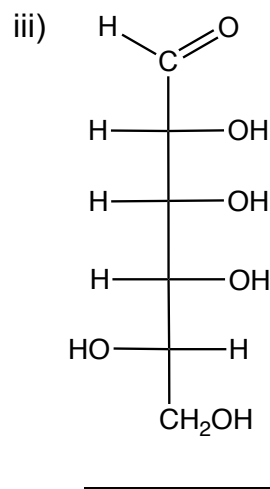
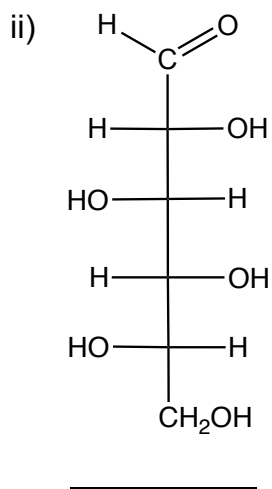
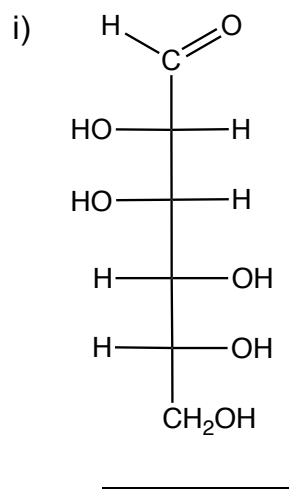
EXAMPLE: Draw a C4 epimer of D-fructose.



D-fructose

CONCEPT: D VS L ENANTIOMERS

PRACTICE: Label each as D-enantiomer, L-enantiomer, epimer or neither of Talose.



PRACTICE: Identify the given molecule as diastereomer or epimer of D-sorbose.

