

CARBOHYDRATES

1.

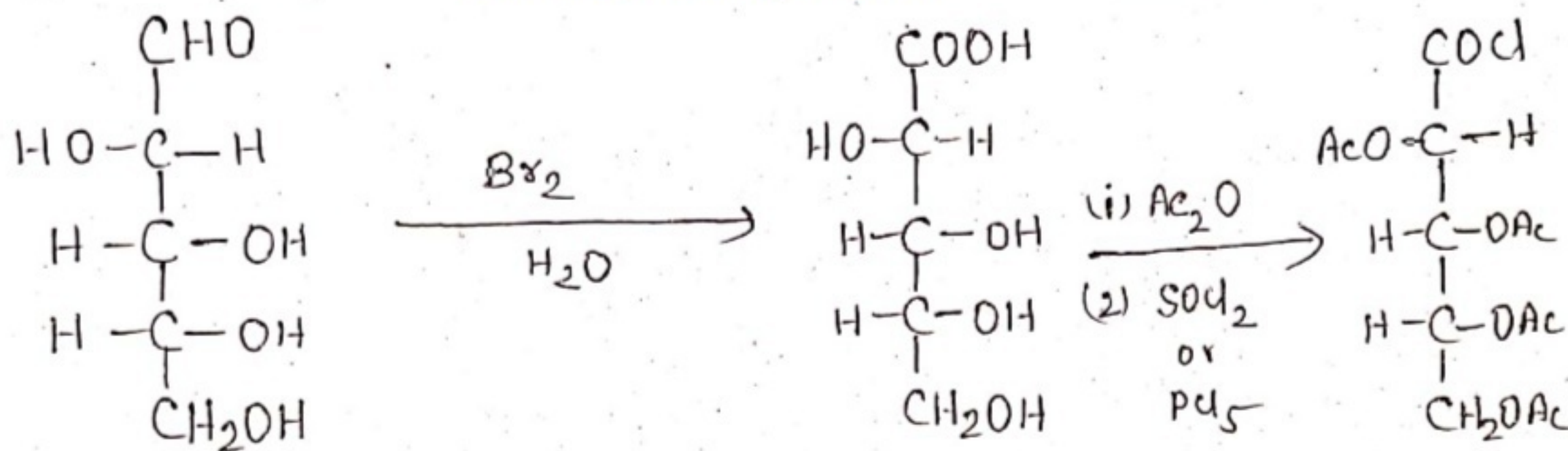
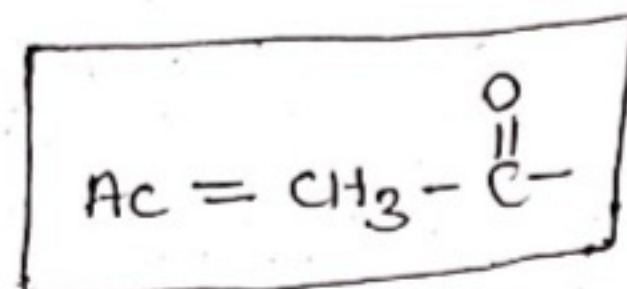
29-05-2020

Lecture-9

Deg-II (H&S)

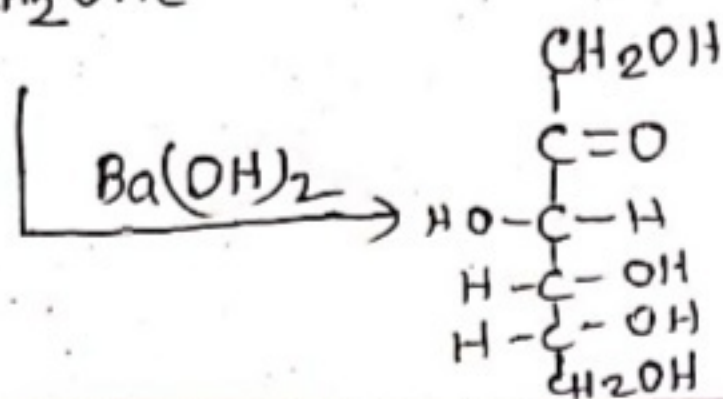
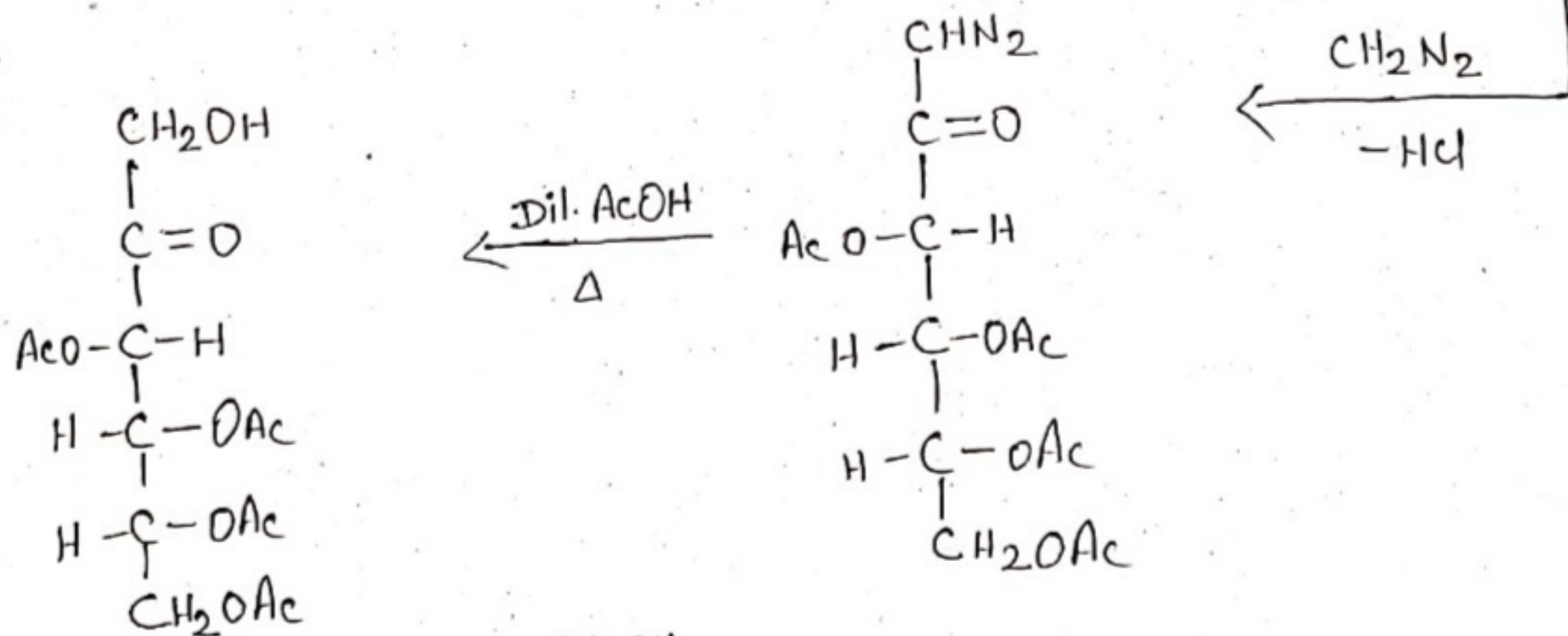
Topic - Interconversion Of Monosaccharides Continued..

Conversion of an Aldose into the next Higher Ketose :- **Wolfrom's Method**



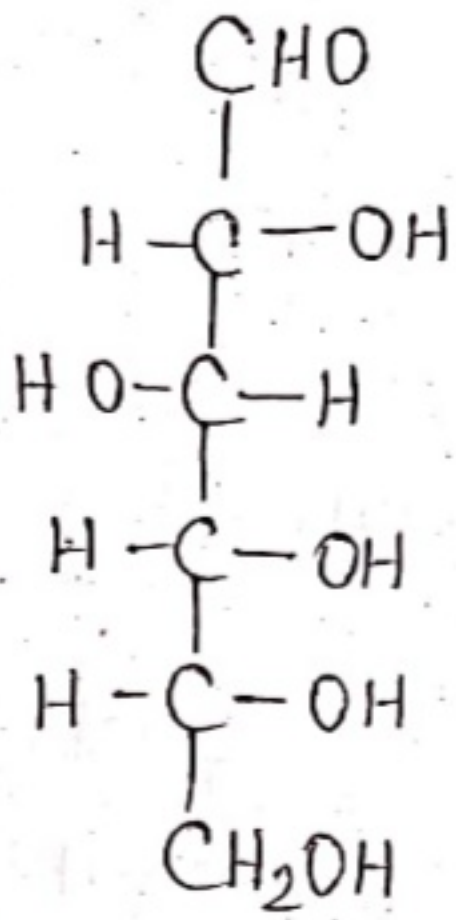
D-Arabinose

(An aldopentose)

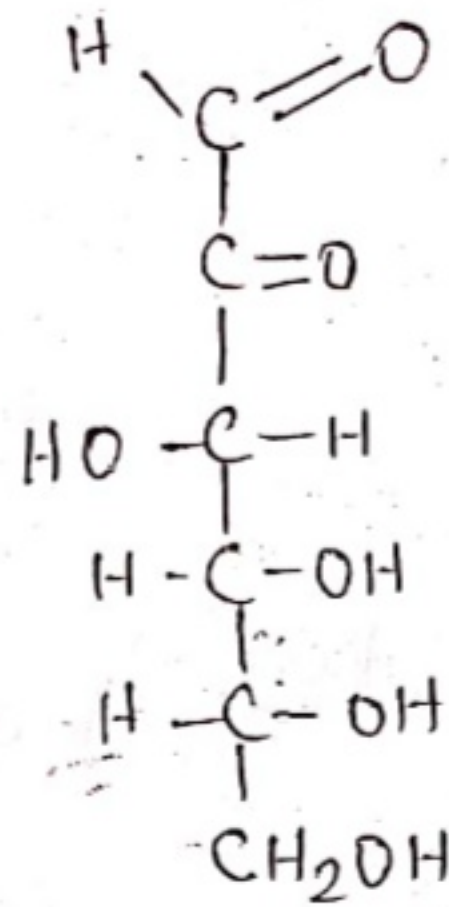
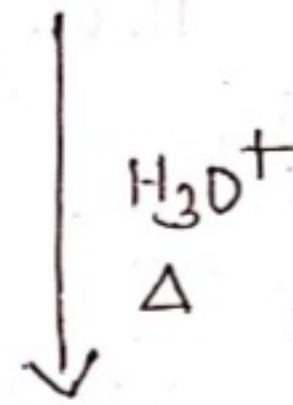
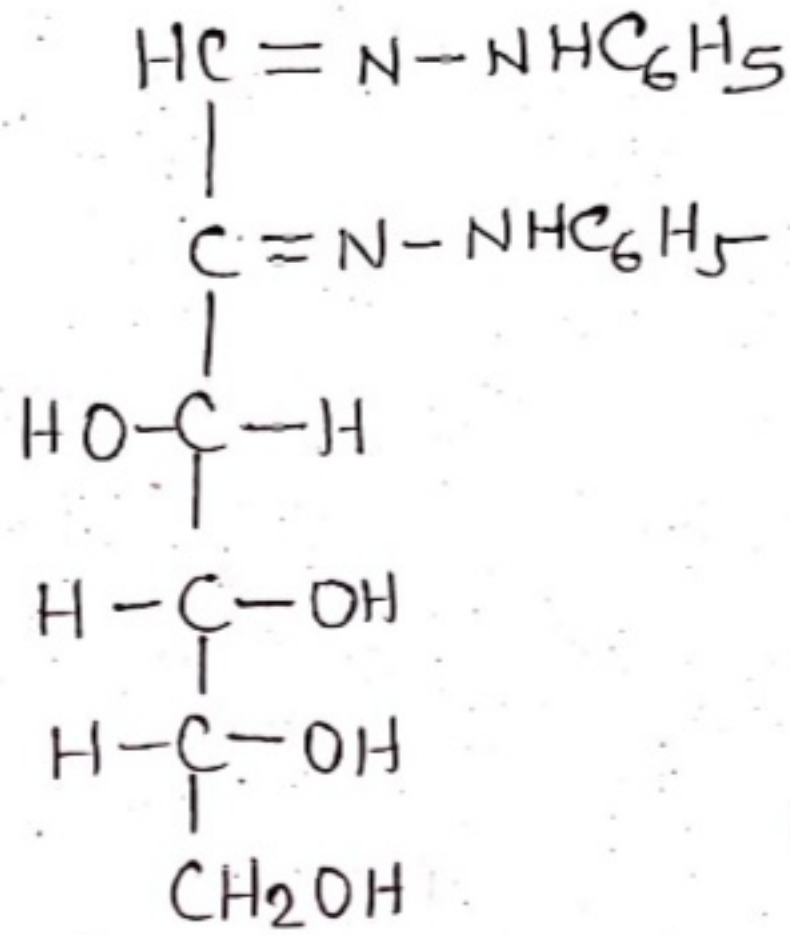
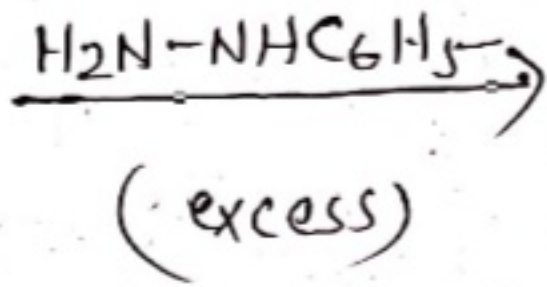


D-Fructose (A ketohexose)

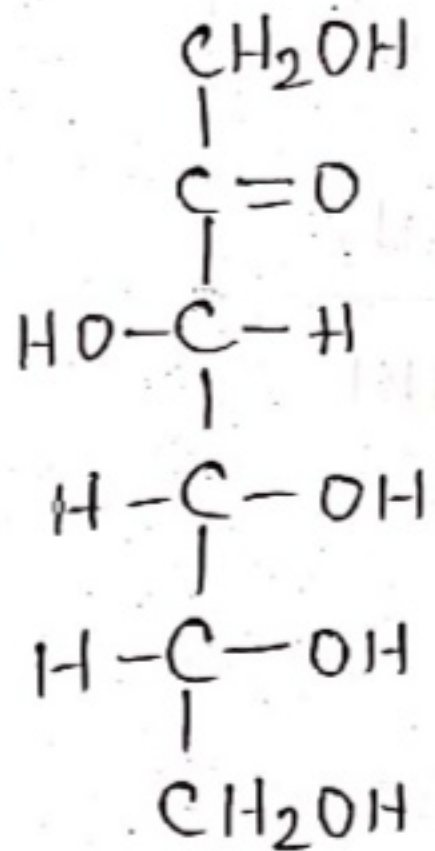
Conversion of an Aldose to the Corresponding Ketose 2.



D-Glucose
(An Aldohexose)

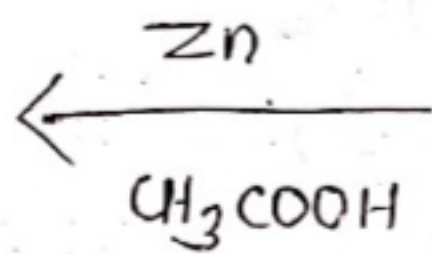


D-Glucosone

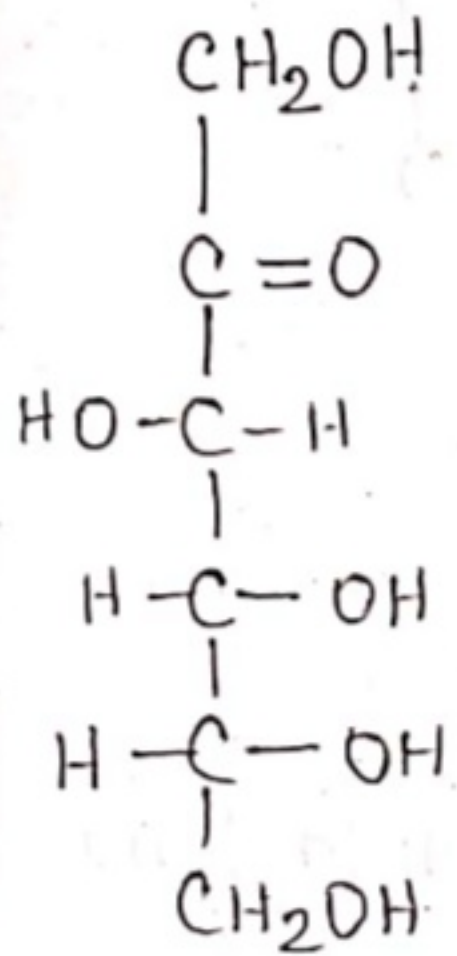


D-fructose

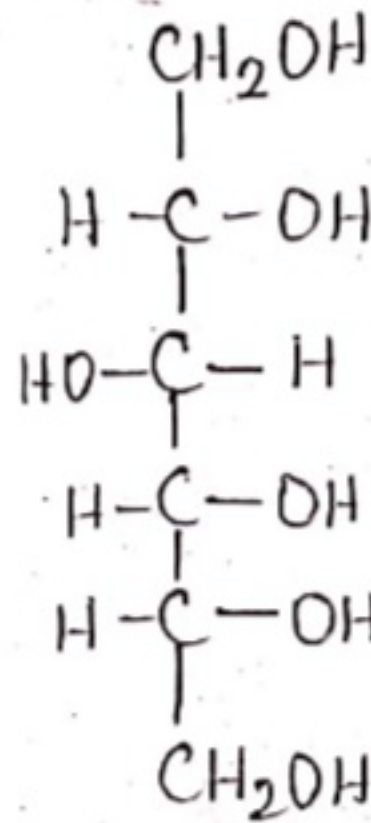
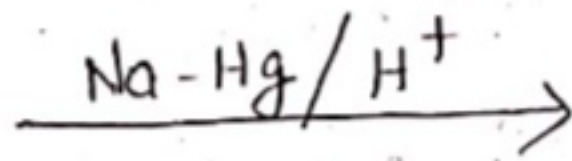
(A Ketohexose)



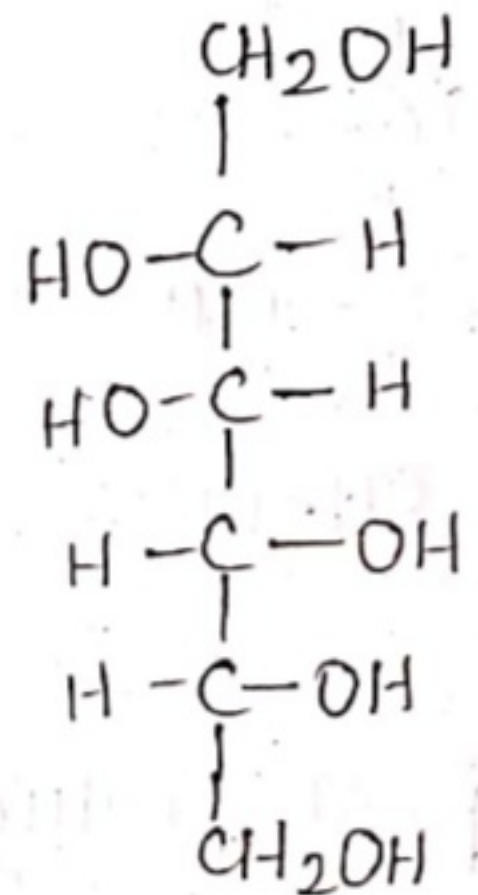
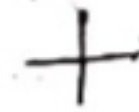
Conversion of the Ketose into the 3. Corresponding Aldose



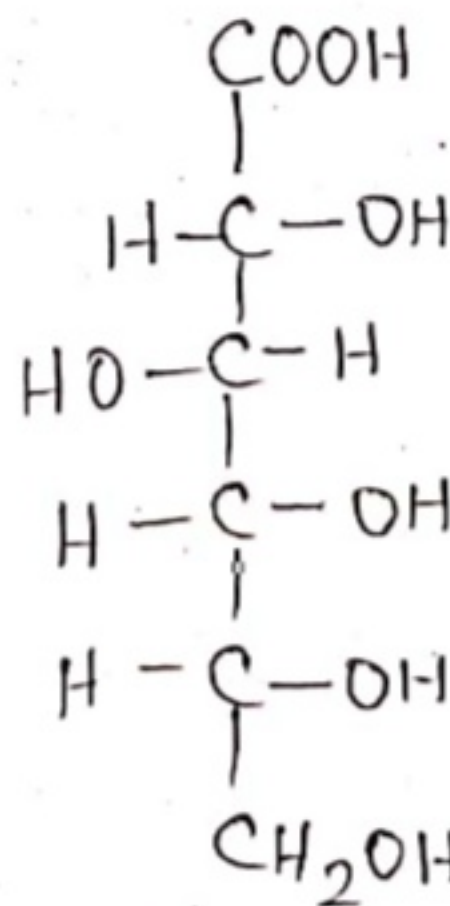
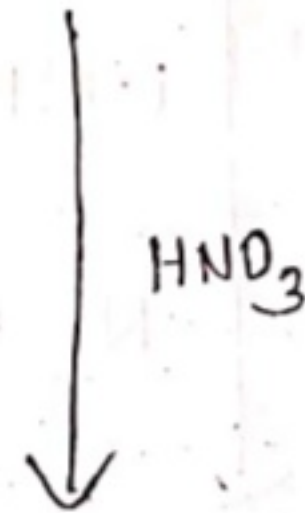
D-Fructose



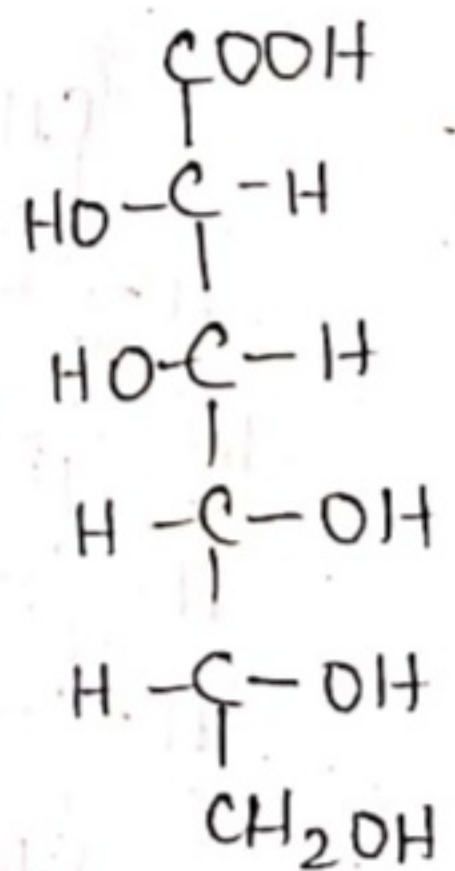
D-sorbitol



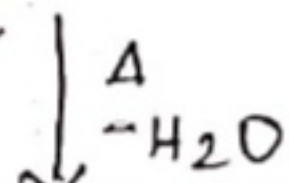
D-Mannitol

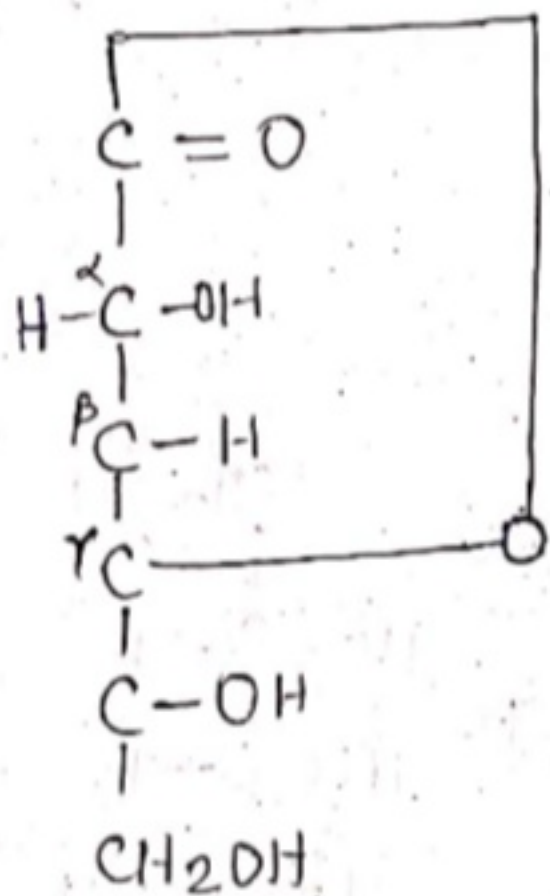


D-Gluconic acid

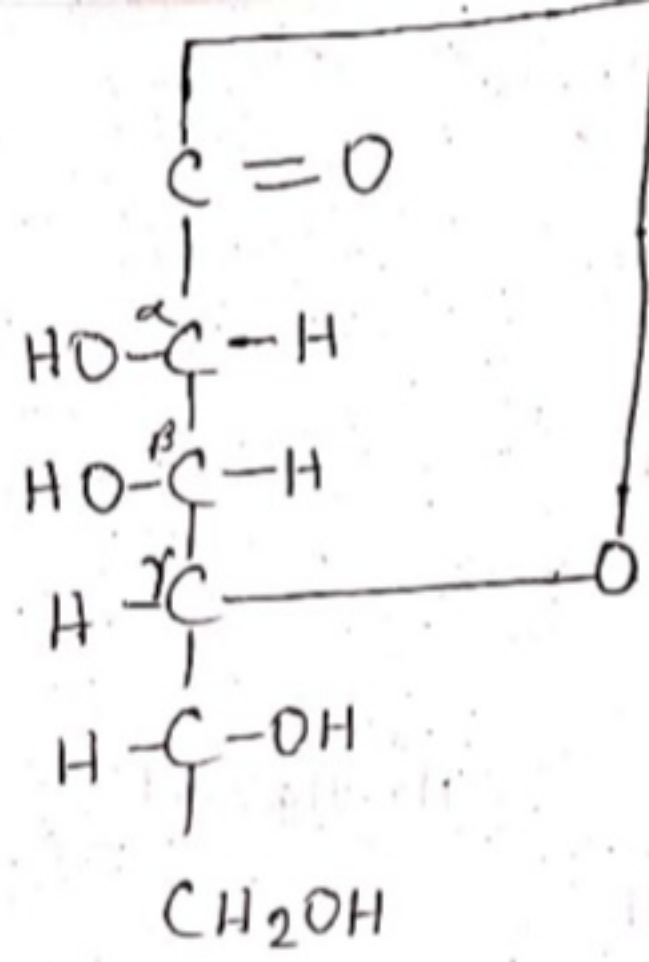


D-mannonic acid



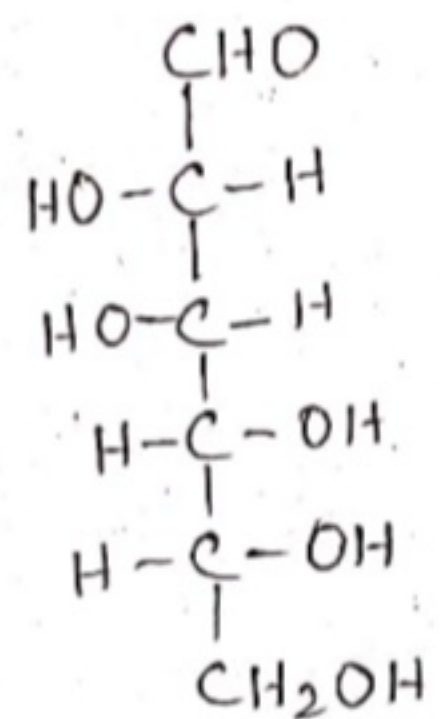
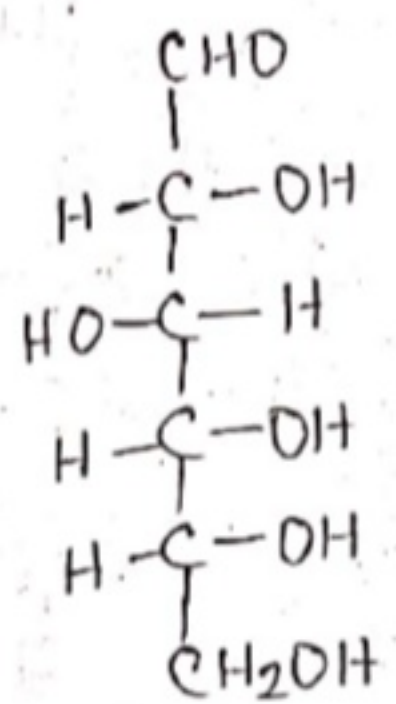
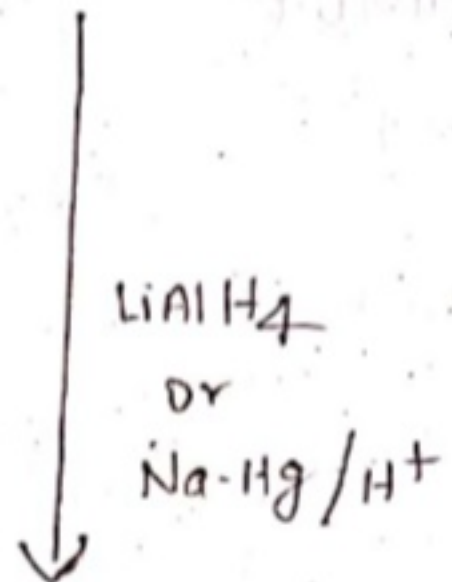
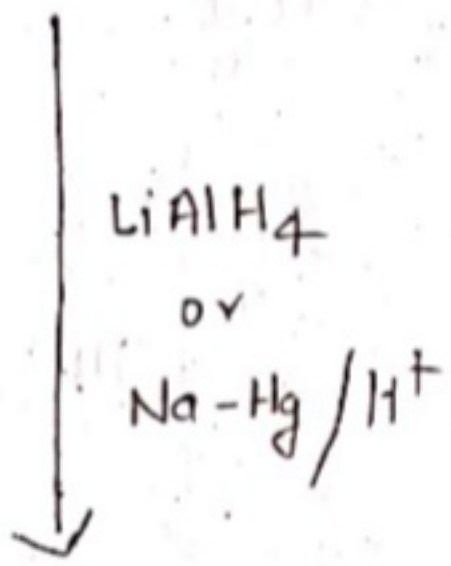


+



γ -D-Gluconolactone

γ -D-mannolactone



D-Glucose

D-Mannose.