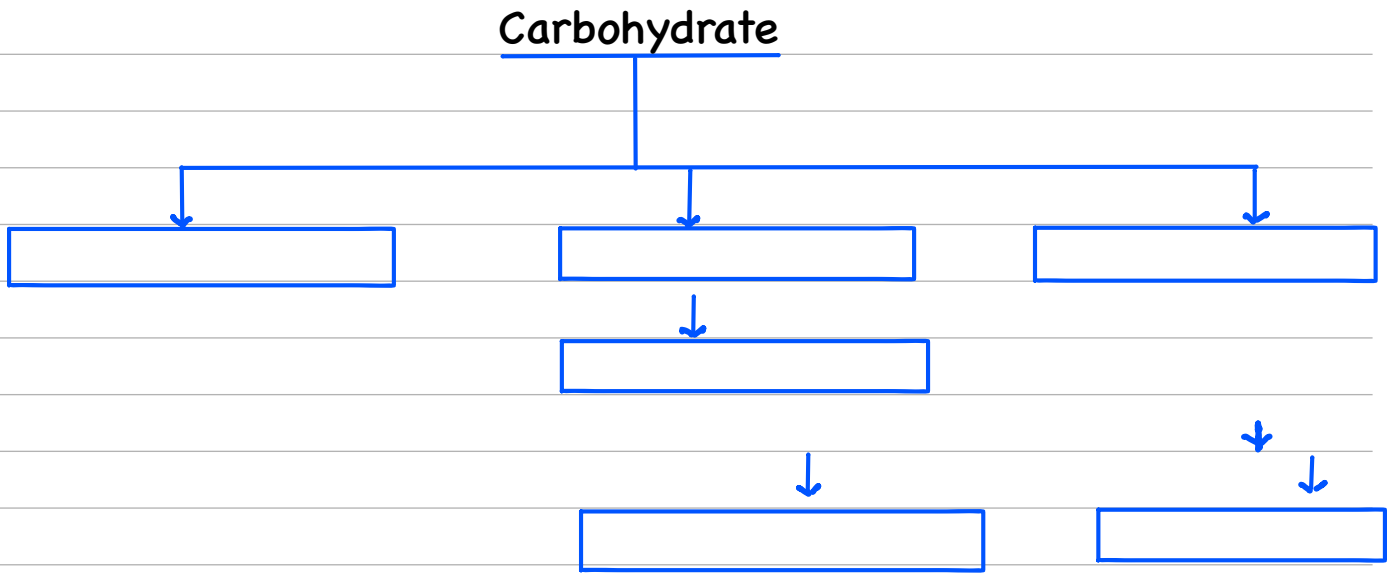
Chapter 13
Classification of carbohydrate



So Smallest possible carbohydrates are

Types of carbohydrate

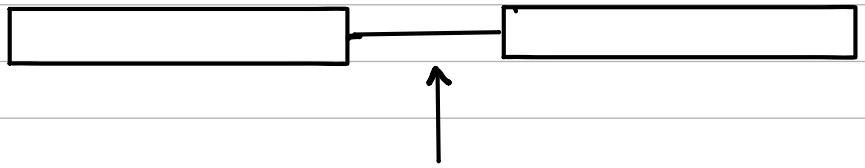
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Monosachharide

Carbon Number	Functional group	

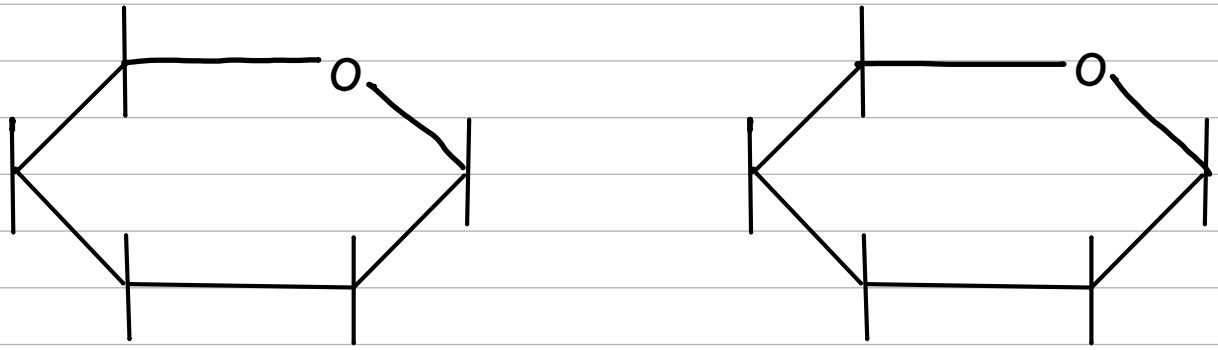
☆ Monosaccharide formula -

Disaccharide



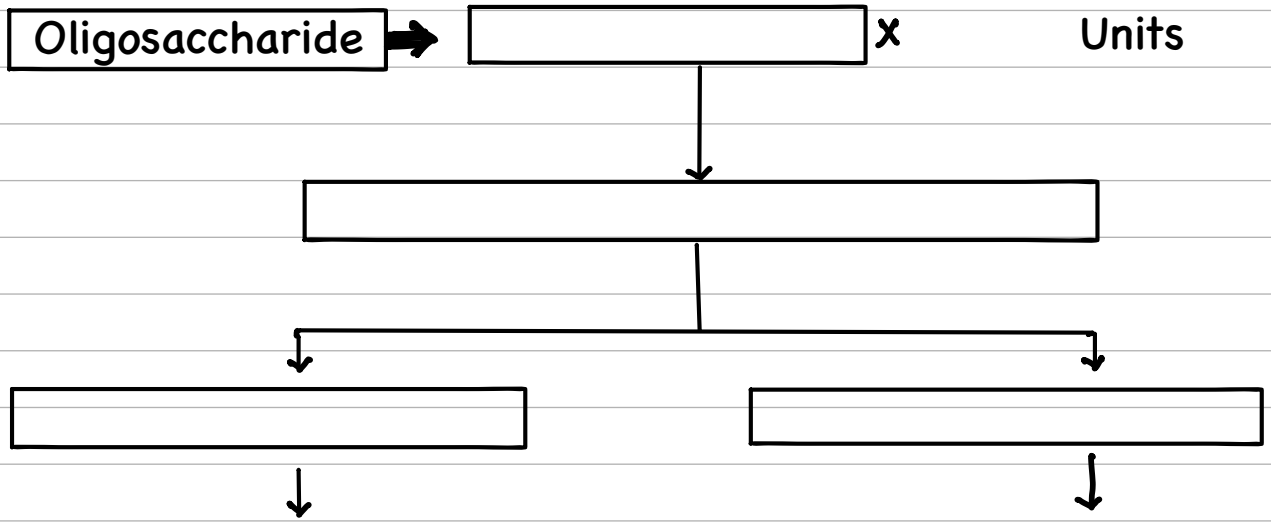
Eg of disaccharide

- _____ -

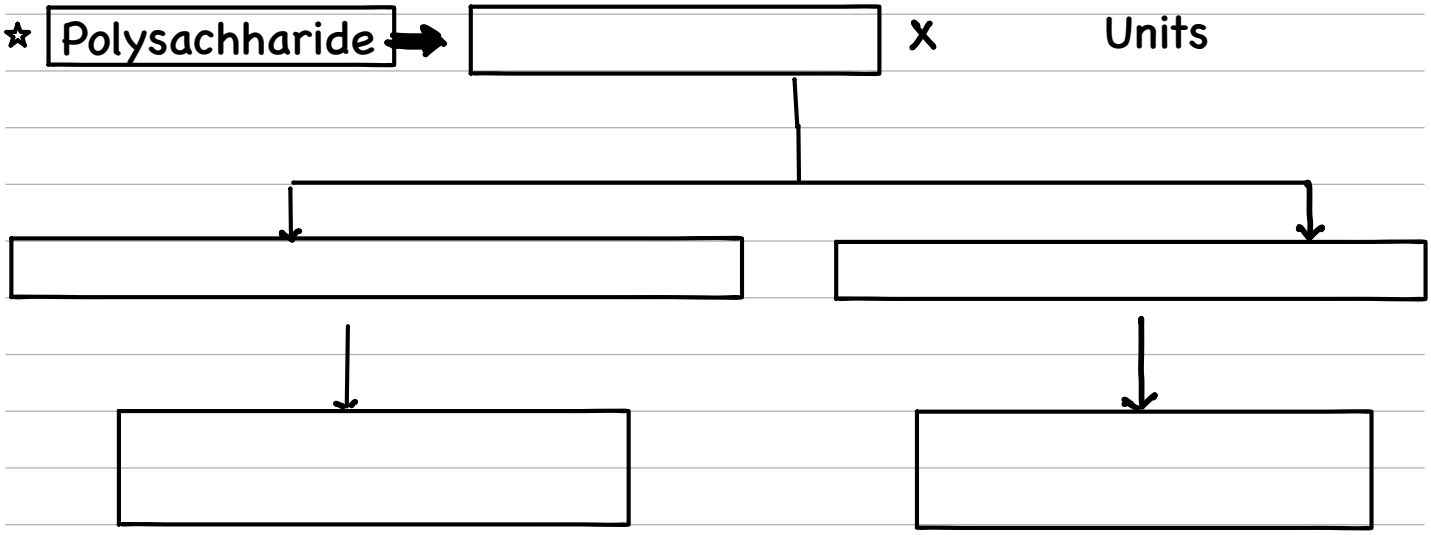


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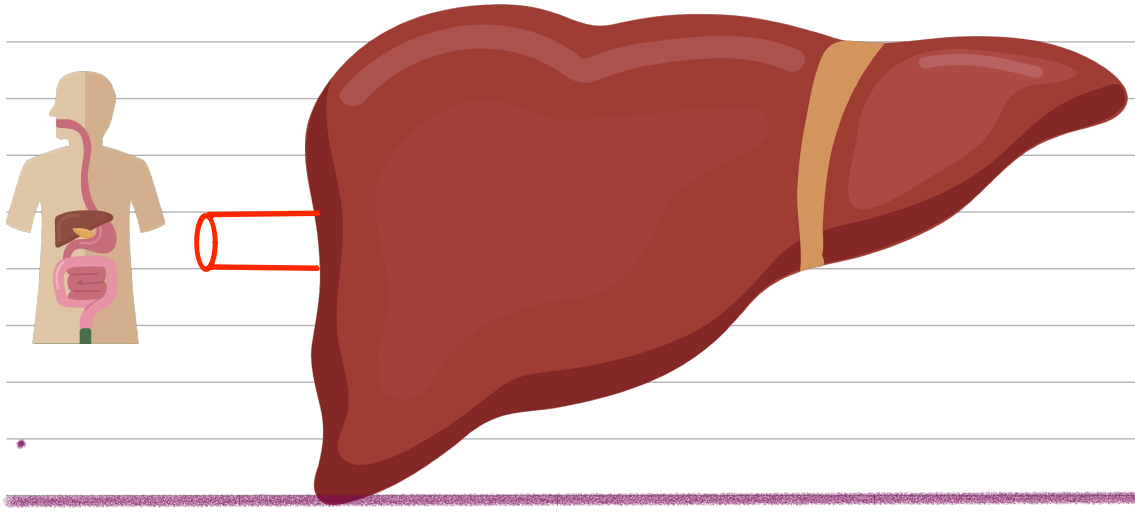


Eg.-

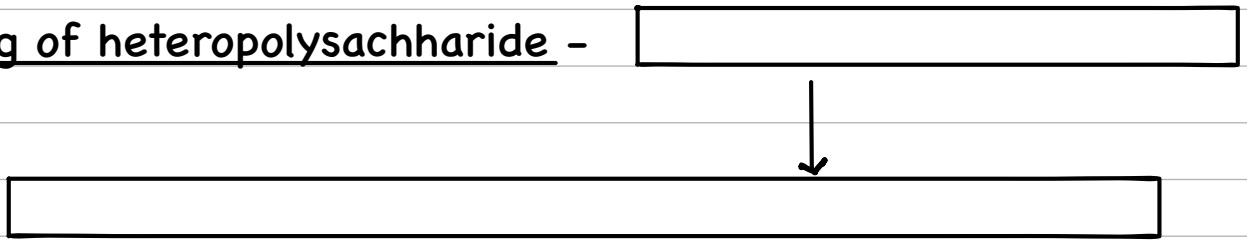


Eg of homopolysaccharide	Monosaccharide Units	Special Point

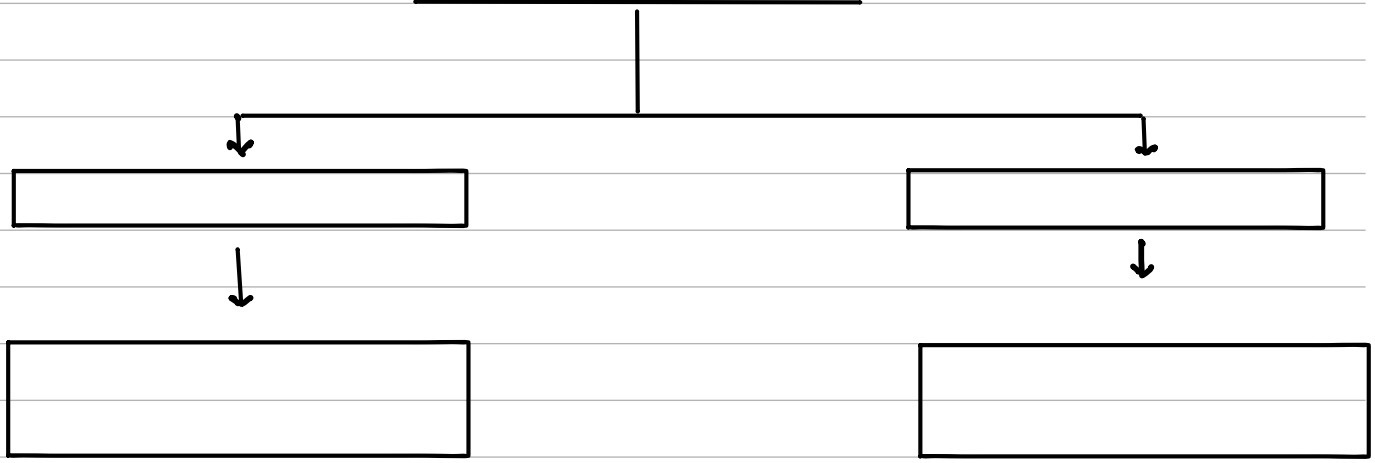
Extra mile - concept of glycogen

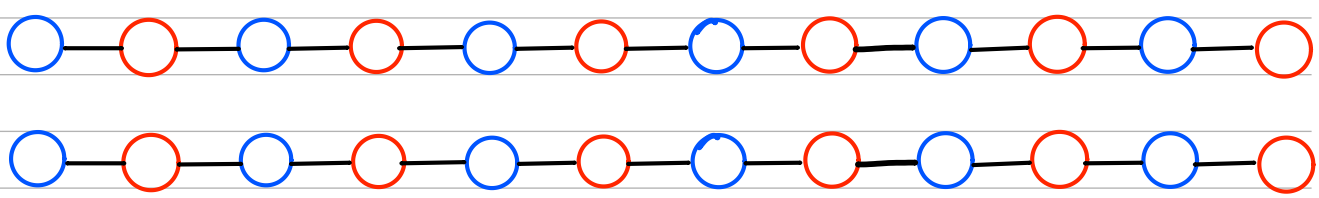


Eg of heteropolysachharide -



Components of GAG





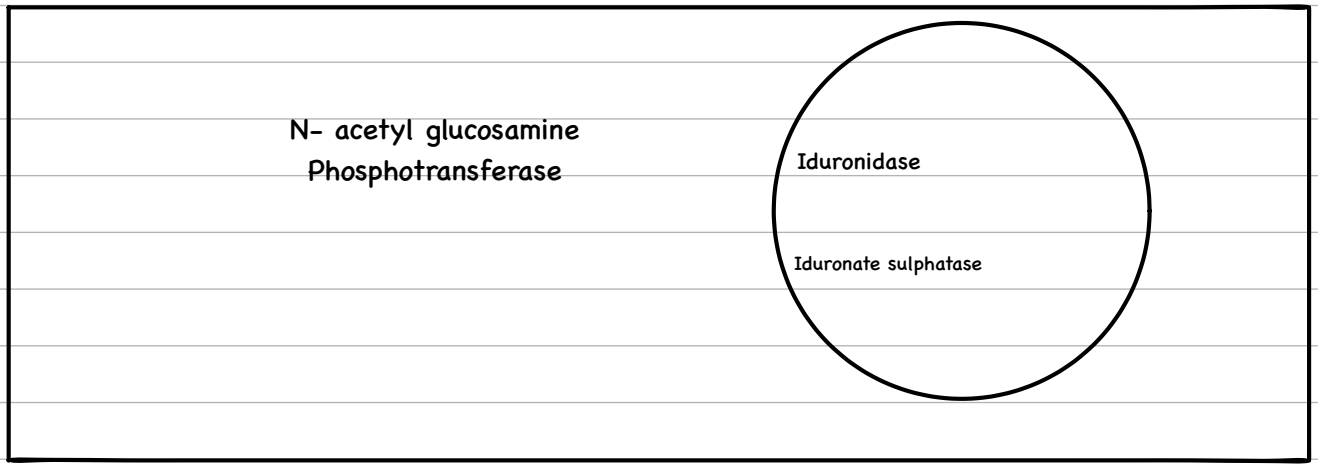
GAG contains …… charge and synthesized in ……

With different combinations of amino sugar and acidic sugar, many types of GAG are possible.

Eg of GAG	Found in	Special point
	•	
	•	
	•	
&	•	
	•	
	•	
	•	
	•	
	•	
	•	

Extra point

☆ GAG metabolism



Deficiency of	Inheritance	C/f
Iduronidase		
Iduronate sulphatase		

Derived sugar

☆ Monosaccharide + …… = ☐

-
-

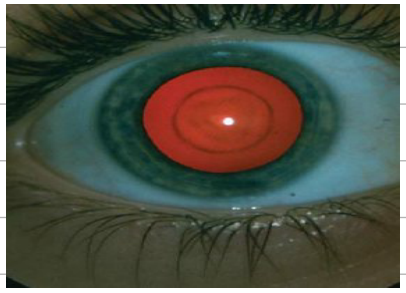
☆ Monosaccharide + …… = ☐

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-
-









Summary – match the followings

a) α-glucose + α-glucose	1) animal starch
b) β-glucose + β-galactose	2) most common GAG
c) blood group antigen	3) does not have uronic acid
d) (α-Glucose) * >10	4) x linked recessive disease
e) keratan sulphate	5) snow flake cataract
f) chondratin sulphate	6) glycoprotein
g) sorbitol	7) maltose
h) corneal clouding present	8) lactose

a……b……c……d……e……f……g……h……