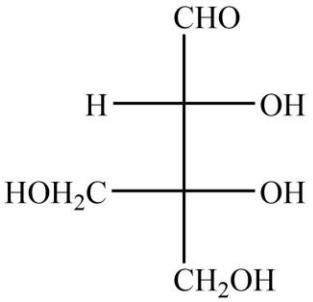
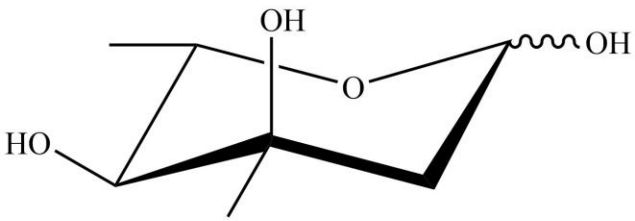
❖ Branch Chain Sugars

Branched-chain sugars may simply be defined as the sugars in which at least one hydrogen atom or hydroxyl group is replaced by a carbon group.

The common types of branched-chain sugars (both kinds) are found in biomolecules. Some typical examples are given below.



(I)



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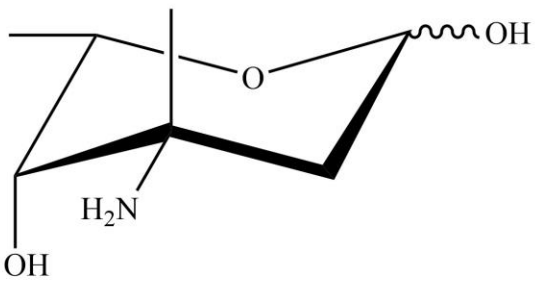

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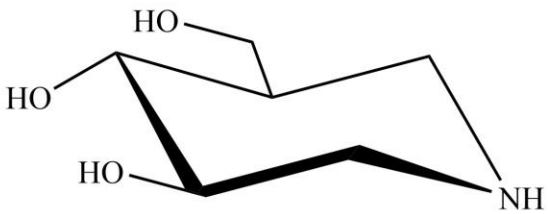

(IV)

It is also worthy to note that branched-chain sugars were considered as "rare" until 1960; however, after the confirmation of their presence in many antibiotics (in form of their glycosidic component), many synthetic chemists put effort to widen the availability domain. Branched-chain sugars are generally obtained from uloses or by the opening of epoxides.

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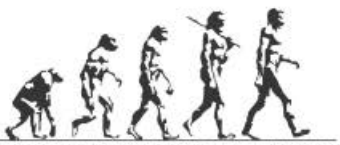

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ISBN: 978-81-952427-3-3

MRP: Rs 800.00

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