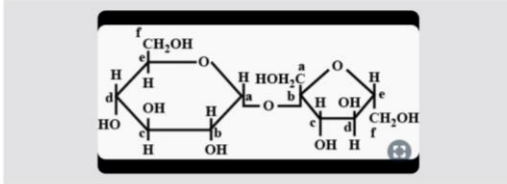


QUESTION

Structure of a disaccharide formed by glucose and fructose is given above Identify anomeric carbon atoms in monosaccharides units.



- A 'a' carbon of glucose and 'a' carbon of fructose
- B 'a' carbon of glucose and 'e' carbon of fructose
- C 'a' carbon of glucose and 'b' carbon of fructose
- D 'f' carbon of glucose and 'f' carbon of fructose

ANSWER:

Correct option is C)

'a' carbon of glucose and 'b' carbon of fructose

Carbon adjacent to the oxygen atom in the cyclic structure of glucose or fructose is known as anomeric carbon. As shown in the structure above 'a' and 'b' are present adjacent to an oxygen atom. Both carbons differ in configurations of the hydroxyl group.

Hence, the correct option is C

