**Report from practicals**

**Sugars**

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| Date of practical : | Group: |  |
|  | Student 1: |  |
| Date of report: | Student 2: |  |
|  | Student 3: |  |

1. Write the course of the reaction to demonstrate the reducing properties of glucose.
2. Explain why fructose, being a ketose, exhibits reducing properties (discuss the phenomenon of epimerization).
3. Discuss the significance of the phenomenon of mutarotation in the context of the structure and biological significance of starch and cellulose.
4. Write the formulas of maltose, lactose and sucrose, explain the differences in their structures.
5. Why does giving a sucrose solution to a newborn cause diarrhea? In your answer, use the concepts of real solution, molar concentration, osmosis).