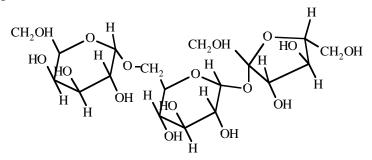
Quiz 2 7/9/02 Name ___

You may collaborate, use your book, and use your notes. Point values are in parentheses.

1. Below is the sugar raffinose. Assuming all the individual sugars can be converted to glucose, how many ATP molecules would result from the complete metabolism of this molecules to carbon dioxide and water. Outline your rational; don't just give a number. (6 pts)



2. Identify the monosaccharides that make up raffinose. Start from the left side of the molecule (as drawn in question 1). (3 pts).

- 3. What types of glyosidic bonds ($\alpha(1,4)$, $\beta(1,6)$ etc.) does raffinose have? Mark and label the bonds on the structure in question 1. (4 pts)
- 4. Problem 21.23 from the book. (3 pts)

5. Problem 24.39 from the book. You don't have to name the products. (4 pts)