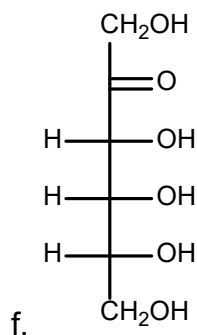
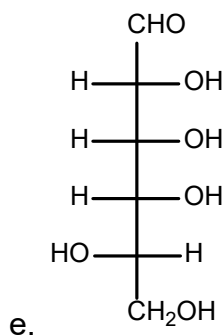
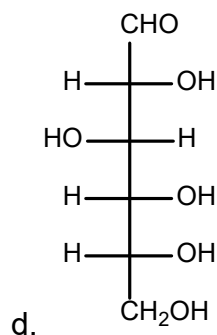
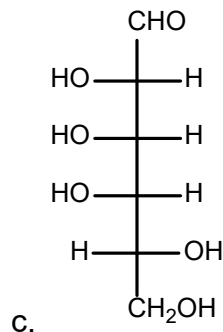
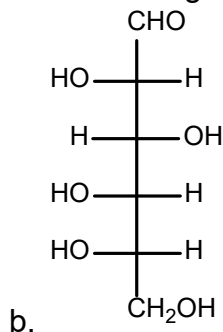
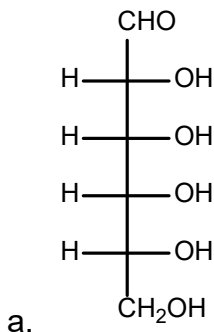


Worksheet #16: Monosaccharides

1. Assign the absolute stereochemistry of each stereocenter in the sugars below. Determine if the sugar is a D or L sugar and if it is an aldose or a ketose.



2. For each of the sugars in question 1 determine their stereochemical relationship (diastereomers, enantiomers, or epimers). If they are epimers specify which carbon is different.

Sugar A and B: _____

Sugar B and E: _____

Sugar A and C: _____

Sugar B and F: _____

Sugar A and D: _____

Sugar C and D: _____

Sugar A and E: _____

Sugar C and E: _____

Sugar A and F: _____

Sugar C and F: _____

Sugar B and C: _____

Sugar D and E: _____

Sugar B and D: _____

Sugar D and F: _____

Sugar E and F: _____

Name: _____ Student ID: _____
CHEM 161 PAL Fall 2026

3. Convert each of the fisher projections in question 1 into a Haworth perspective formula. Draw both anomers of the sugar and label each anomer as α or β . (Hint: sugar f. forms a furanose and a pyranose)