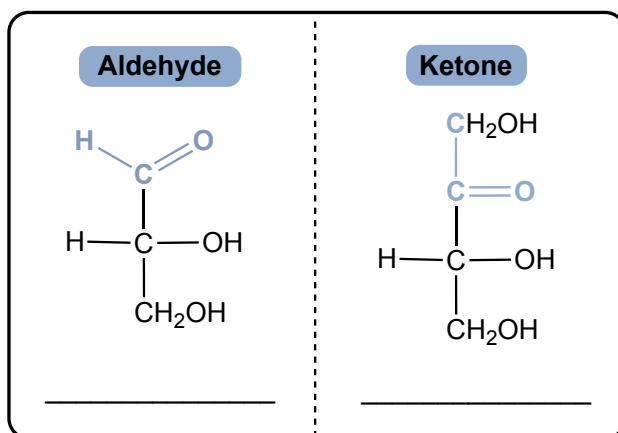


## CONCEPT: INTRO TO CARBOHYDRATES

- **Carbohydrates:** sugars or saccharides composed of \_\_\_\_\_; rich in \_\_\_\_\_ groups.
  - Primary source of \_\_\_\_\_ for living organisms.
- **Monosaccharide:** the \_\_\_\_\_ carbohydrate with general formula \_\_\_\_\_, where  $n \geq$  \_\_\_\_\_.
  - Can be straight chains or \_\_\_\_\_.



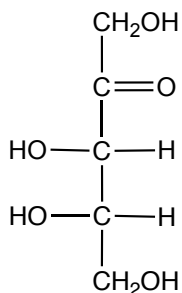
**EXAMPLE:** Which of the following chemical formulas represents that of a simple carbohydrate?

- |                   |                |
|-------------------|----------------|
| a) $C_2H_2O_2$    | c) $C_5H_4O_3$ |
| b) $C_6H_{12}O_6$ | d) $C_3H_6O_9$ |

## Monosaccharide Generic Names

- Monosaccharides use both generic names and specific names (eg. glucose).

**EXAMPLE:** Provide a generic name for the following monosaccharide.



**STEP 1:** Starts with \_\_\_\_\_ or \_\_\_\_\_, depending on functional group present.

**STEP 2:** Count # of Cs, use prefixes: tri- \_\_\_\_, tetra- \_\_\_\_, pent- \_\_\_\_, hex- \_\_\_\_, hept- \_\_\_\_.

**STEP 3:** Add ending \_\_\_\_\_.