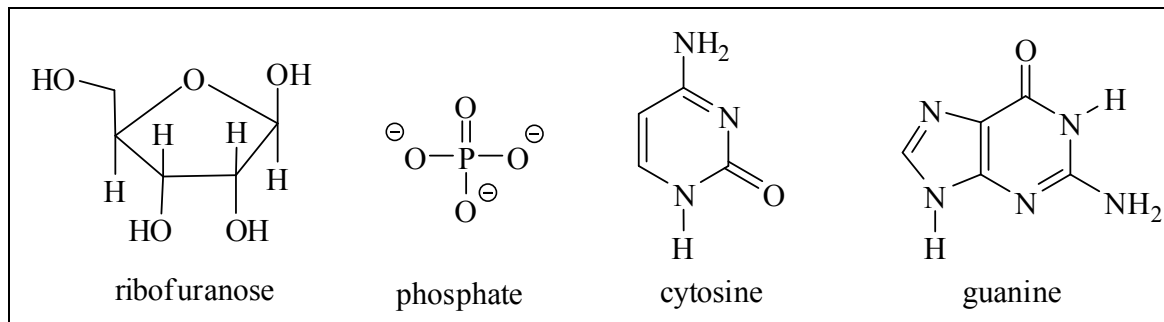


- The following species represent some of the building blocks of RNA.



Is the sugar depicted the  $\alpha$  or the  $\beta$  form? Circle the correct answer.

$\alpha$	$\beta$
----------	---------

Is the sugar depicted a reducing sugar or a non-reducing sugar? Circle the correct answer.

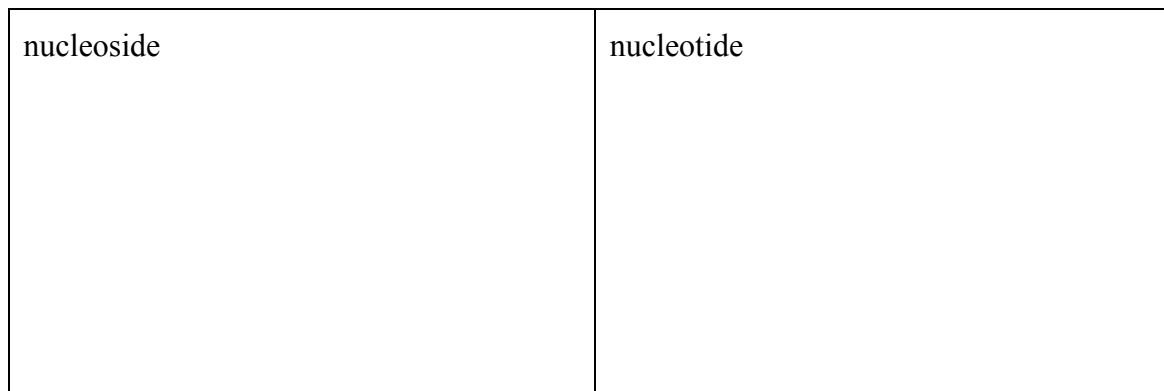
reducing	non-reducing
----------	--------------

Indicate on the above structure the 'anomeric' carbon atom that gives rise to the  $\alpha$  or the  $\beta$  form.

Draw the Fischer projection of D-ribose.

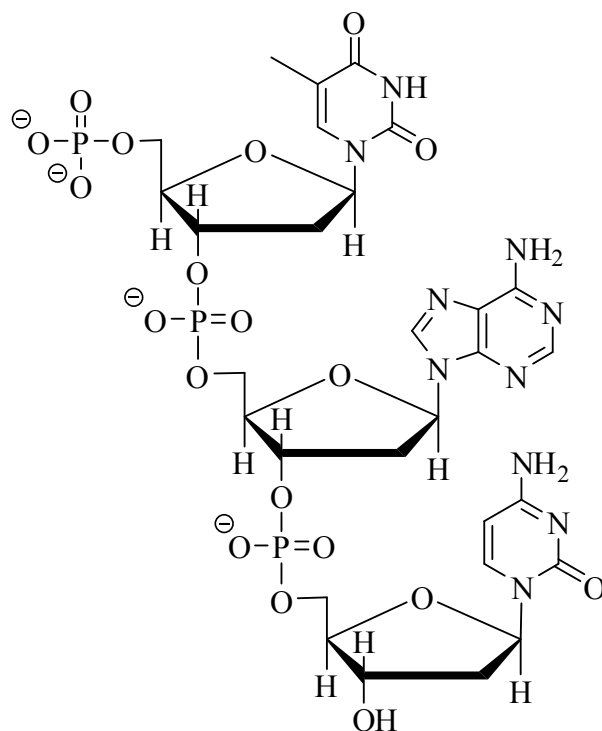


Using a selection of the species given, draw a nucleoside and a nucleotide.



- Consider the following structure.

Marks  
5



Is it a fragment of DNA or RNA? Give two reasons.

Clearly identify on the above structure one example of each of the following subunits.

nucleic base

nucleoside

nucleotide