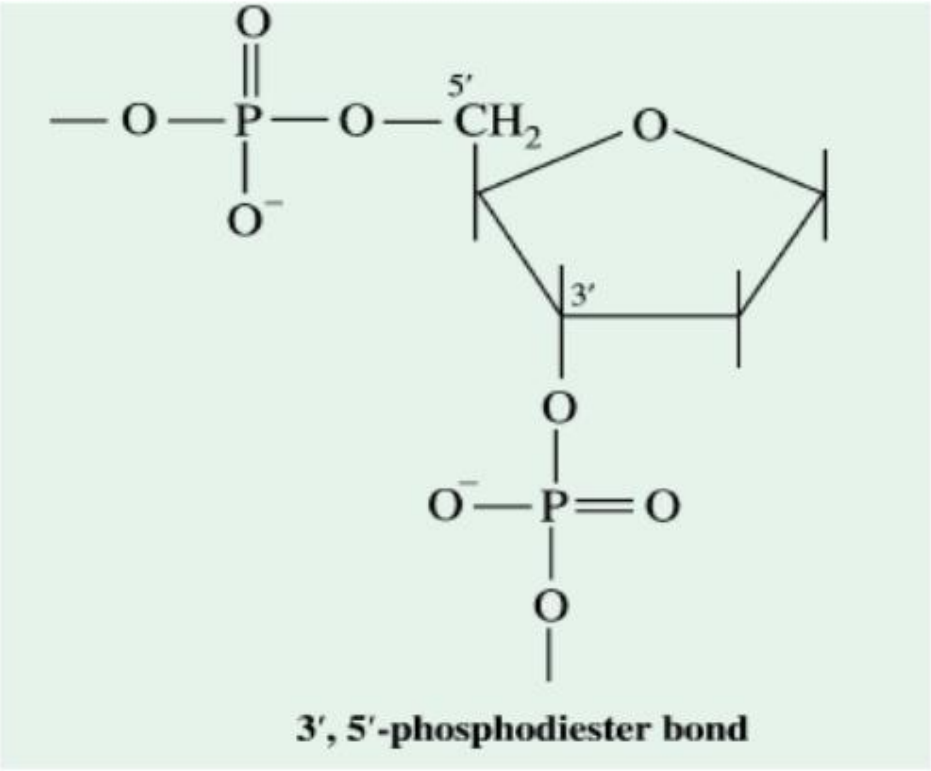

3′, 5′-phosphodiester bond

Nitrogenous Bases

- ✓ Two types of nitrogenous bases are found in all nucleic acids.
- ✓ The nitrogenous bases are derivatives of pyrimidine and purine.
- ✓ Pyrimidine bases – Uracil, Thymine and Cytosine
- ✓ Purine bases – Adenine and guanine

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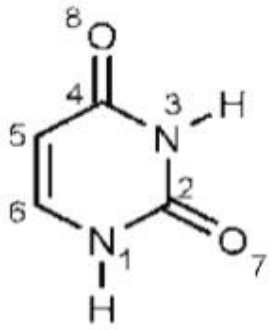
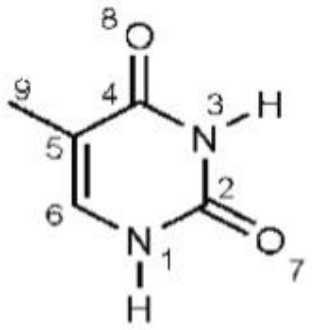
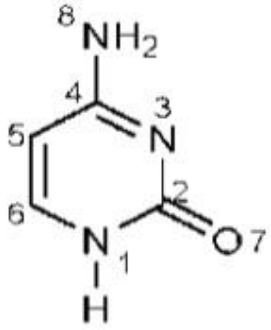


uracil



thymine



cytosine

Uracil ($C_4H_4O_2N_2$), found in RNA only, MW = 112.10 daltons, M.P - 338°C.
Thymine ($C_5H_6O_2N_2$), found in DNA only, MW = 126.13 daltons, M.P - 335°C.
Cytosine ($C_5H_4ON_3$), found in both DNA and RNA, MW = 111.12 daltons, M.P – 320-325°C