

CHAPTER-6

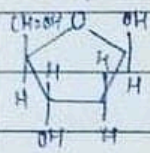
6-11-2020

Date _____
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Molecular Basis of Inheritance:

DNA: deoxyribonucleic acid (acidic, negative)

β-form **Sugar** **Base** **Phosphate**

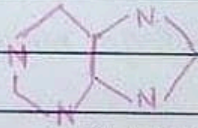


Nucleoside

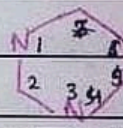
Nucleotide

Purines
double ring

Pyrimidines
single ring



N-1, 3, 7, 9



N=1, 3

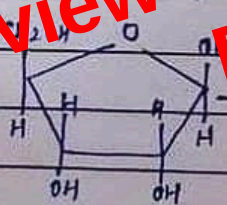
adenine

guanine

Cytosine

Thymine

Nucleoside - Base + Sugar



Purines (N9)

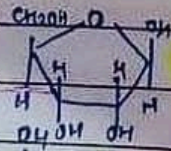
Pyrimidines (N1)

glycosidic Bond

β-D-ribose

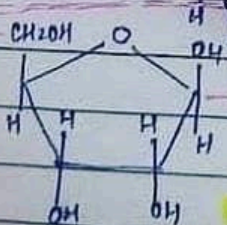
Nucleotide

(PO₃)



Phosphodiester Bond

(PO₄)²⁻



BASE

Phosphoester Bond