

ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Biological Sciences Class: XI Date: 28.11.2020

	Nucleic Acids		F.M:15
	WORKSHEET – 54		(1x15=15)
i) DNA and RNA are			
(1) Nucleotides	(2) Nucleosides	(3) Nitrogenous bases	(4) Nucleic Acids
ii) Which of the following is not present in a nucleotide?			
(1) Nitrogenous bases	(2) Hexose sugar	(3)Phosphate	(4) Pentose sugar
iii) Which of the following is not a pyrimidine?			
(1) Uracil	(2) Thymine	(3) Cytosine	(4) Adenine
iv) 2 amino 6 oxy purine is-			
(1) Adenine	(2) Thymine	(3) Guanine	(4) Cytosine
v) The deoxy ribose sugar lacks one oxygen at			
(1) 3'	(2) 5'	(3) 2'	(4) 4'
vi) The name of Thymine is			
(1) 2,4,di –oxy 5 methyl pyrimidine (2) 2,4,di –oxy pyrimidine (3) 2-oxy 4-amino			
pyrimidine	(4) All of these		
vii) Which of the following is found in between Nitrogenous base and the pentose sugar?			
(1) Ester bond	(2) Glycosidic bond	(3) Phosphodiester bond	(4) None of these
viii) Adenosine is			
(1) Nitrogenous base	(2) Nucleosides	(3) Nucleotides	(4) Nucleic Acids
ix) Adenosine + Phosphoric Acid			
(1) Adenine	(2) Adenylic Acid	(3) Adenidine	(4) Adenosic Acid
x) According to Chargaff's rule,			
(1) A+G=T+C	(2) A/G=T/C	(3) A X G= T X C	(4) A-T= G-C
xi) One complete turn of the helix has			
(1) 34 A	(2) 3.4 A	(3) 0.34 A	(4) 0.034 A
xii) The number of bases present in one turn of nucleic acids-			
(1) 12	(2) 10	(3) 8	(4) 14
xiii) Which of the following is directed outwards?			
(1) Major groove	(2) Minor groove	(3) Both (1) and (2)	(4) None of these
xiv) The number of Hydrogen bonds present between A and T is			
(1) 1	(2) 2	(3) 3	(4) 4
xv) The DNA helix diameter is about			
(1) 10 A	(2) 30A	(3) 20A	(4) 40A

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