



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : Biomolecules

Date of worksheet : 4 - 5 -2017

Resource Person: Zehra Fatima

Date of Submission : \_\_\_\_\_

Name of the Student : \_\_\_\_\_

Class & Division : XI B

Roll Number : \_\_\_\_

S.No.	Questions	Marks
1 .	Define Biomolecules.	1
2.	Why oils generally remain in liquid state even in winters?	1
3.	Name the most abundant protein present in whole biosphere.	1
4.	Which element is found in proteins but not in lipids and carbohydrates?	1
5.	What are Biomacromolecules. Give an example.	1
6.	Represent the zwitterionic form of amino acid and mention the reason for its formation.	1
7.	What is an enzyme?	1
8.	Name the protein which form the intercellular ground substance.	1
9.	What do you mean by Riboenzyme?	1
10.	Name a polysaccharide made of fructose.	1
11.	Differentiate between primary and secondary metabolites. Give an example for each.	2
12.	Describe the metabolic pathways.	2
13.	Write differences between catalyst and enzymes.	2
14.	Differentiate between apoenzyme and coenzyme. Give an example for each	2
15.	Alanine and Glycine are different with respect to one substituent on the carbon. What are the other common substituent group?	2

16. Explain the mechanism of enzyme action. 3
17. Describe competitive inhibition with an example. 3
18. Differentiate between Nucleotide and nucleoside. Give an example for each. 3
19. State and explain the three factors effecting enzyme activity. 3
20. Describe the three types of bonds linking monomers in a polymer. 3
21. Write in detail the structure of proteins. 5
22. Mention different types of proteins and their functions. 5
23. Write the classification of enzymes along with their functions? 5
24. What are co-factors? Describe types of co factors. 5