

CHOITHRAM SCHOOL MANIKBAGH INDORE

CLASS XII- Session: 2018-19

Subject: Biotechnology
Allotment Date: 20/ 07/ 2018

Assignment No: II
Submission Date: 30 / 07/2018

S.N O	QUESTION	MAR KS	LEVEL
1.	What is probiotics?	1	KNOWLEDGE
2.	What is protein efficiency ratio?	1	KNOWLEDGE
3.	What is structural proteomics?	1	KNOWLEDGE
4.	Give two examples and the application of Blood products. Therapeutic Antibodies.	2	UNDERSTANDI NG
5.	Why is milk a suitable source of nutrient during early growth in mammals?	2	LOGIC
6.	What is the principle of two dimensional Gel Electrophoresis?	2	MULTICONCEP TUAL
7.	What is Subtilisin and name the technique used to alter the subtilisin?	2	HOTS
8.	Why has sickle cell trait been selected in population where malaria is endemic? What is the molecular basis of sickle cell anemia?	3	UNDERSTANDI NG
9.	The functional properties of protein are dependent on 3D structures. Name the non covalent interactions involved in making a folded protein. Differentiate between Hydrogen Bonds and Van der Waals forces.	3	APPLICATION
10.	What are genome sequencing projects? Name any two organisms whose genome has been sequenced completely. What is the role of BAC in such sequencing programs?	3	ANALYSIS
11.	Draw a labeled diagram of Mass Spectrophotometer. Explain ionization methods that are required for examination of molecules?	3	APPLICATION
12.	The enzyme chymoprypsin is inactivated by organophosphates. Why? How is this enzyme able to catalyse the hydrolysis of proteins? Explain the mechanism	5	ANALYSIS