

**CHOITHRAM SCHOOL MANIKBAGH INDORE****CLASS XII Session: 2018-19****Subject: Biotechnology**  
**Allotment Date: 08/09 /2018****Assignment No: III**  
**Submission Date: 18/09/2018**

S.No	QUESTION	MARKS	LEVEL
1.	What do you mean by semi synthetic media?	1	Knowledge
2.	Define database	1	Understanding
3.	Define Chemostat and Turbidostat?	1	hot
4.	Define Growth Kinetics? If a bacterial culture contains $10^3$ cells/ml at $t_0$ and $10^6$ cells/ml after 3 hrs. Calculate its specific growth rate and doubling time?.	2	knowledge
5.	Describe the structure function relationship in proteins giving example of sickle cell anemia?	2	understanding
6.	Write short note on EST.	2	logic
7.	What does sentence, punctuation, word and chapter denotes in biological language used in bioinformatics?	2	Hot
8.	What is gene prediction & gene counting? Write gene prediction algorithms.	3	understanding
9.	Human genome project was completed in 10 years. Why it took such a long time? What strategies was followed to sequence complete genome? What difficulties were faced by scientists?.What values you learned from above?	3	Multi conceptual
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.	What do you understand by proteomics? List various types of proteomics?	5	Logic
12.	Name any three major data retrieval tool commonly used in bioinformatics . What is BLAST? Also write the type of information available from BLAST	5	knowledge