

Subject - Biotechnology
Class - XII

1st TERM:-

Chapter 1 (Recombinant DNA Technology)

Chapter 4 (Microbial Cell Culture and its application)

Chapter 5 (Plant Cell Culture and applications)

Chapter 6 (Animal Cell Culture and applications)

Practicals:- 1. Use of special equipments in biotechnology experiments.

2. Isolation of DNA from onion.

3. Gel electrophoresis

4. Preparation of media

5. Dilution of sample.

6. Pouring of media and spreading of sample.

7. Cell viability assay

8. Gram staining

2nd TERM

Chapter 3 (Genomics and Bioinformatics)

Chapter 2 (Protein Structure and Function)

Practicals:-

1. Computer based all the practicals

a. Motif analysis

b. Complementary sequence

c. Gen bank

d. Composition analysis

e. Studing DNA sequence comparing proteins.

1st Term Test – Recombinant DNA Technology

Half Yearly – 1,4,5,6 (till determination of cell line)

1st Pre-Board- all chapters

2nd Pre-Board- all chapters

ASSINGMENT :- To prepare a PowerPoint presentation on “BIOTECHNOLOGY IS A BOON FOR SOCIETY”.

OR

To visit any pathology lab and to perform an experiments related to biotechnology and make a report.