

SEM-258

M. Sc. (Fourth Semester) Examination, June 2021

BIOTECHNOLOGY

Paper : 401

(Bioinformatics)

Time Allowed : Three hours

Maximum Marks : 80

Note: Attempt all questions. All question carries equal marks.

1. Describe Protein and DNA databases in detail.
2. Explain Multiple Sequence Alignment Programme & Genome Analysis Program.
3. Describe methods of prediction of Proteins, DNA and RNA.
4. Give a detailed account of structure determination by X-ray Crystallography and HMR-spectroscopy.
5. Explain concept of a pharmacophore and pharmacophore based searches of ligand databases.