

Exam. Code : 107401

Subject Code : 2233

B.Sc. Biotechnology 1st Semester
COMPUTER & BIOINFORMATICS
FUNDAMENTALS

Paper—BT-5

Time Allowed—3 Hours] [Maximum Marks—40

Note :—Attempt **ALL** questions from Section A, any **FIVE** questions from Section B and any **TWO** from Section C.

SECTION—A

1. Briefly differentiate between RAM and ROM.
2. Write any two secondary storage devices.
3. What do you understand by Plotter ?
4. Briefly explain the functioning of laser printer.
5. Provide any two usages of BLAST.
6. What do you understand by PDB ?
7. Briefly differentiate primary and secondary databases.
8. How do you define Bioinformatics ? 1×8=8

SECTION—B

1. Differentiate between hardware and software with suitable examples.

2. Discuss CPU and its functioning.
3. Discuss any three kinds of printers along with their functioning.
4. Write a short note on input devices.
5. Explain the significance of computers in Bioinformatics.
6. Discuss any two major bioinformatics databases.
7. Write steps to perform BLAST.
8. Write a short note on importance of sequence alignment. 4×5=20

SECTION—C

1. Discuss computer organization in detail along with block diagram.
2. Discuss any six input/output devices along with their usage.
3. Write a detailed note on BLAST.
4. Write short notes on :
 - (i) DDBJ
 - (ii) NCBI
 - (iii) PROSITE. 6×2=12