

Exam. Code : 107401

Subject Code : 1820

B.Sc. Biotechnology 1st Semester

BT-5 : COMPUTERS & BIOINFORMATICS

FUNDAMENTALS

Time Allowed—3 Hours] [Maximum Marks—40

Note :— Attempt *five* questions, selecting at least *one* question from each Section. The fifth question may be attempted from any Section. All questions carry equal marks.

SECTION—A

1. (A) Differentiate between Primary and Secondary Memory with suitable examples. 4
- (B) Differentiate between Application and System Software with suitable examples. 4
2. Draw a block diagram and discuss the basic organization of Computer. 8

SECTION—B

3. Discuss the Input/Output Devices of Computer in detail. 8
4. Write short notes on the following :
 - (A) Laser Printer
 - (B) Line Printer. 8

SECTION—C

- 5. (A) Which type of issues or problems related to Biological Data are dealt with in Bioinformatics ? 4
- (B) What do you understand by Gap Penalty ? 4
- 6. Discuss Pairwise Sequence Alignment along with its methods. 8

SECTION—D

- 7. Discuss Primary and Secondary Databases in detail. 8
- 8. Write short notes on :
 - (A) NCBI
 - (B) Expasy. 8