

Exam. Code : 103201

Subject Code : 1272

B.A./B.Sc. 1st Semester

BIOINFORMATICS

**(Fundamentals of Computers, Molecular Biology &
rDNA Technology)**

Time Allowed—3 Hours]

[Maximum Marks—75

Note :— Attempt any **FIVE** questions. Selecting at least **ONE** question from each section. The **FIFTH** question may be attempted from any section.

SECTION—A (15 Marks Each)

1. Write a brief note on computer architecture. Explain features and uses of various memory chips.
2. Write down illustrated notes on properties and working of MS-Excel.

SECTION—B (15 Marks Each)

3. Write notes on :—
 - (a) WAN;
 - (b) Router, and
 - (c) WWW.
4. Describe the term HTML. Give a detailed protocol for incorporating hyperlinks, images and tables in a file.

SECTION—C (15 Marks Each)

5. Compare features and importance of heterochromatin and euchromatin.
6. Compare mechanisms and features of Prokaryotic and Eukaryotic transcription processes.

SECTION—D (15 Marks Each)

7. Diagrammatically illustrate :—
 - (a) Organization, and
 - (b) Regulation of Tryptophan operon.
8. Discuss the importance, principles and methods of various DNA sequencing techniques.