

Exam. Code : 103201

Subject Code : 1287

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

BIOINFORMATICS

**(Fundamentals of Computers, Molecular Biology and
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

1. (a) Discuss types of input output devices.
(b) Write in detail Page setup in MS-Word document. 8,7
2. (a) Explain different types of memory chips.
(b) Enlist steps to insert sound files to the slide of MS-PowerPoint. 8,7

SECTION—B

3. (a) Differentiate between internet, intranet and extranet. 5
(b) Explain in detail various network topologies. 10

4. (a) Explain Internet services like E-mail, Chat and News groups.
- (b) Explain the use of Router and Switch in a computer network. 9,6

SECTION—C

5. (a) Write the organization of DNA in a eukaryotic chromosome.
- (b) Describe the replication of DNA. 7,8
6. (a) Write salient features of Genetic Code.
- (b) Explain the process of transcription in Bacterial cells. 5,10

SECTION—D

7. Write brief notes on any **three** of the following :
- (a) Ligase Enzyme
- (b) Plasmids
- (c) Genetic Map
- (d) Bt cotton
- (e) PCR. 5,5,5
8. (a) Write positive regulation of Tryptophan operon.
- (b) Write the method of DNA sequencing. 7,8