Exam. Code : 103201
Subject Code : 1289

B.A./B.Sc. 1st Semester
BIOINFORMATICS
(Fundamentals of Computers, Molecular Biology & rDNA Technology)

Time Allowed—3 Hours]   [Maximum Marks—75

Note :— Attempt *five* questions. Select at least **ONE** from each section.

SECTION—A

1. (a) Discuss types of input output devices.
   (b) Write in detail text formatting in MS-PowerPoint.

   8,7

2. (a) Enlist steps to insert pictures in the slide of MS-PowerPoint.
   (b) Compare memory features of various types of computers.   7,8

SECTION—B

3. (a) Discuss the concept of internet domain.
   (b) Explain in detail various network topologies.

   5,10

4. (a) Explain internet services like e-mail, Chat and News Groups.
   (b) Explain the use of Router and Switch in a computer network.
   (c) Explain various types of Web Browsers in use currently.   5,5,5

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SECTION—C

5. (a) Write the organization of DNA in a prokaryotic chromosome.

   (b) Describe the replication of DNA.   6,9

6. (a) Write salient features of Aromatic amino acids.

   (b) Explain the process of translation in Bacterial cells.   5,10

SECTION—D

7. Write brief notes on any *three* of the following :

   (a) Restriction Enzymes

   (b) Phage Lambda

   (c) Genetic Map

   (d) Transgenic Plants

   (e) Vector.   5,5,5

8. (a) Write positive regulation of Lac operon.

   (b) Write the procedure of PCR.   7,8