Exam. Code : 103201
Subject Code : 1313

B.A./B.Sc. Ist Semester

BIOINFORMATICS (Vocational)

(Fundamentals of Computers, Molecular Biology & rDNA Technology)

Time Allowed—Three Hours]   [Maximum Marks—75

SECTION—A

1. Explain the following terms :

    (a) Supercomputers

    (b) ROM

    (c) MS Word

    (d) WAN

    (e) Hyperlinks

    (f) Pyrimidine

    (g) Nucleoside

    (h) Hydrogen bond

    (i) Taq polymerase

    (j) Plasmid. $10 \times 1\frac{1}{2} = 15$

SECTION—B

2. Explain difference between workstation and notebook.

OR

What is MS Excel ? Discuss its importance and application.

3. What is TCP/IP protocol ? Explain role of router in computer network.

OR

Make a page in HTML displaying your details (name, college name and roll number in different fonts).

4. What is quaternary structure of protein ? How is it different than tertiary and secondary structure ?

OR

What is splicing ? Discuss role of different enzymes which has a role in prokaryotic RNA transcription.

5. What is physical map ? Discuss its application in genomics or genome related studies.

OR

What is operon ? Discuss lactose operon. $15 \times 4 = 60$