Exam. Code : 206603
Subject Code : 4662

M.Sc. Bio-Informatics 3rd Semester

GENOMICS & PROTEOMICS

Paper—BI–631

Time Allowed—3 Hours] [Maximum Marks—75

Note :— Candidates are required to 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. What are transposable elements ? Discuss anatomy of eukaryotic genome. 15

2. What is genome mapping ? Discuss physical mapping techniques and their applications. 15

SECTION—B

3. What are comparative genomics databases ? Discuss any one such database. 15

4. What are genome alignment tools ? Compare MUMmer and BLAST2. 15

SECTION—C

5. What is pharmacogenomics ? Discuss comparative proteomics. 15

6. What is protein folding ? Discuss applications of bioinformatics in proteomics studies. 15

SECTION—D

7. What do you understand by protein-protein interaction network ? Discuss MINT database. 15

8. What do you understand by interactome ? Discuss GRID database and its significance. 15