

- VI. How is metagenomics analysis done ? What information do we obtain and discuss the advantage(s) of the same ?
- VII. Discuss any one web tool used to study protein-protein interactions.
- VIII. Write short notes on :
- (a) 2D electrophoresis
 - (b) FRET.

Exam. Code : 206602
Subject Code : 4787

M.Sc. Bioinformatics 2nd Semester
GENOMICS & PROTEOMICS

Paper : BI-523

Time Allowed—2 Hours] [Maximum Marks—75

Note :—There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

- I. Write a note on eukaryotic genome.
- II. Write short notes on any **2** of the following :
 - (a) Physical mapping of genome
 - (b) Sequence repeats
 - (c) Practical uses of genome mapping.
- III. What are microsatellites ? What is their significance in the genome ? Are they associated with any human diseases ?
- IV. Answer the following :
 - (a) What are the applications of SSCP ?
 - (b) What is chromosomal synteny ? What information do syntenic maps provide ?
- V. What is population genomics ? How does it help us in studying the evolutionary effect on genome ?