Exam.Code:0442
Sub. Code: 3511

2053
M.Sc. (Bio-Informatics) Fourth Semester
MBIN-8017: Genomics and Proteomics – II

Time allowed: 3 Hours

Max. Marks: 60

**NOTE:** *Attempt* _five_ *questions in all, including Question No. I which is compulsory and selecting atleast one question from each Unit.*

x-x-x

I.  Answer briefly:-

(a) Triplet repeats

(b) Protein crosslinking

(c) Homolgy

(d) SSCP

(e) molecular markers

(f) dHPLC sequencing

(g) SCOP

(h) Polymorphisms

(8x1½)

## UNIT - I

II.  a) Write a note on the milestones of HGP.

b) Differentiate between RFLP and AFLP.

(2x6)

III.  a) Write a note on the SNP and disease.

b) Discuss the construction of physical maps.

(2x6)

## UNIT - II

IV.  a) Explain any two methods used for studying protein-protein interactions?

b) Discuss the role and significance of Proteomics automation.

(2x6)

V.  Write the different methods used for predicting algorithms for pathways and interactions.

(12)

## UNIT - III

VI.  a) How is protein structure predicted using fold recognition?

b) Explain any software used for analysis of membrane proteins.

(2x6)

VII.  Write notes on:-

a) BLASTZ

b) VISTA

(2x6)

x-x-x