

AU-392

M.Sc. (Part-II) Semester-III (CBCS) Examination**BOTANY****(Bioinformatics—II)****Paper—XII (Elective)**

Time : Three Hours]

[Maximum Marks : 80

Note :—(1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable examples and diagrams.

1. Give an account of sequence pattern profile and motifs. 16

OR

Give a detailed account of concept, method and types of phylogenetic tree. 16

2. Write on :

- (a) Stereochemical analysis of genome code 5
 (b) LTR's 5
 (c) Neural network. 6

OR

- (d) SNP's 5
 (e) C_pG islands 5
 (f) Tandem repeat. 6

3. Give an account of Gene prediction. Add a note on its application. 16

OR

Describe concept of structural genomics and primer designing. 16

4. Write on :

- (g) Virology resources 5
 (h) Protein validation 5
 (i) Protein homology. 6

OR

(j) Docking strategies	5
(k) Ramchandran plot	5
(l) Protein optimization techniques.	6
5. Write on :	
(m) Biomolecular drugs	5
(n) Ligand mediated drug targetting	5
(o) Model organism.	6
OR	
(p) ICTV	5
(q) Genechip	5
(r) Drug target identification.	6