

M.Sc. (Part-II) Semester-III (CBCS) Examination
BOTANY (Elective)
(Bioinformatics-I)
Paper-XI

Time : Three Hours]

[Maximum Marks : 80

- N.B. :-** (1) All questions carry equal marks and are compulsory.
 (2) Draw well labelled diagrams wherever necessary.

1. Write on :
 - (a) CPU 5
 - (b) Linux Kernel 5
 - (c) Online processing. 6

OR

 - (d) Secondary storage devices 5
 - (e) Application softwares 5
 - (f) Computer virus databases. 6
2. Write on :
 - (g) WAN 5
 - (h) High-level conceptual data models 5
 - (i) Object-oriented data model. 6

OR

 - (k) Relation model 5
 - (l) Hierarchical model 5
 - (m) Applications of internate modules. 6
3. Elaborate on various databases used in bioinformatics with examples. 16

OR

 Elaborate on Oracle. How do we represent comments and functions in Oracle ? 16
4. Write on :
 - (n) P fam 5
 - (o) Protein databases 5
 - (p) Applications of genome databases. 6

OR

 - (q) KEGG 5
 - (r) NCBI 5
 - (s) Databases of protein sequence grouping. 6
5. Elaborate on any two scoring matrices with suitable examples. 16

OR

 Give detail account on pairwise sequence alignment by using EMBOSS Needle. 16

