

M.Sc. Semester-II (CBCS Scheme) Examination
BIOINFORMATICS (New)
(Biological Database Management System)
Paper—VII

Time : Three Hours]

[Maximum Marks : 80

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

(2) Draw suitable diagrams wherever necessary.

1. (a) What is Database ? State and explain its need. 6
- (b) What is the role of Database Administrator ? Explain. 5
- (c) What are Database Schema ? Explain. 5

OR

- (p) What are views of database ? Explain. 6
- (q) What is Network Model ? Explain. 5
- (r) What is Instances ? Explain. 5
2. (a) What are ER Models ? Explain. 8
- (b) What are Relational Models ? Explain. 8

OR

- (p) What are the characteristics of relational model ? Explain with example. 8
- (q) How object oriented concepts are implemented in data model ? Explain. 8

3. (a) What is Dynamic SQL ? Explain. 5
- (b) What is Nested Sub Query ? Explain with example. 5
- (c) What is Distributed DBMS ? Explain. 6

OR

- (p) What is data warehousing ? Explain. 5
- (q) What is data integration ? Explain. 5
- (r) What are aggregate functions ? Explain. 6
4. (a) What is Normalisation ? Explain. 8
- (b) What is Hashing ? Explain. 8

OR

- (p) What Transaction ? How are they managed ? Explain. 8
- (q) What are functional dependencies ? Explain with example. 8
5. (a) What are languages used for MySQL ? Explain. 5
- (b) Write procedure for MySQL installation. 5
- (c) Explain data types used in MySQL ? 6

OR

- (p) What is the role of database administrator in MySQL ? Explain. 5
- (q) Explain MySQL system structure. 5
- (r) How is storage management done in MySQL ? Explain. 6