

Exam. Code : 206601
Subject Code : 4755

M.Sc. Bio-Informatics 1st Semester (Batch 2021-23)
DATABASE MANAGEMENT AND DATA MINING

Paper : BI-512

Time Allowed—3 Hours] [Maximum Marks—75

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The **FIFTH** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. What do you understand by DBMS ? Discuss the advantages of DBMS in detail. 15
2. Write short notes on :
 - (i) Database Languages
 - (ii) Database Users
 - (iii) Schema. 15

SECTION—B

3. Discuss the following forms of Normalization with suitable example :
 - (i) 3NF
 - (ii) BCNF
 - (iii) 5 NF. 15
4. Discuss ER Diagram and its components in detail. 15

SECTION—C

5. Write short notes on the following with suitable examples :
 - (i) Relational Model
 - (ii) Relational Algebra
 - (iii) Relational Model Constraints. 15
6. (A) Differentiate between SQL and PL/SQL. 5
(B) Discuss DML Commands of SQL with suitable examples. 10

SECTION—D

7. What do you understand by Data Warehouse ? Discuss the role of Data Warehouse in Data Mining. 15
8. Write short notes on :
 - (i) Data Mining
 - (ii) KDD
 - (iii) Pattern Mining. 15