

**Exam. Code : 206601**

**Subject Code: 5002**

**M.Sc. Bio-Informatics 1<sup>st</sup> Semester**

**DATABASE MANAGEMENT AND DATA MINING**

**Paper—BI-512**

Time Allowed—3 Hours] [Maximum Marks—75

**Note** :— There are **Eight** questions. Candidates are required to attempt any **Five** questions. All questions carry equal marks.

**SECTION—A**

1. (A) Discuss the different characteristics of Database in detail. 10  
(B) Explain Schema with a suitable example. 5
2. Discuss Architecture of DBMS in detail. 15

**SECTION—B**

3. Discuss different forms of Normalization with suitable example. 15
4. Discuss ER Diagram and its components in detail. 15

**SECTION—C**

5. Write short notes on following with suitable examples :—
  - (i) PL/SQL
  - (ii) Triggers
  - (iii) Cursors. 15

6. Discuss various DDL and DML commands of SQL with suitable examples. 15

**SECTION—D**

7. What do you understand by Mining ? Discuss the importance of Data Mining in context with Biological Data. 15
8. Write short notes on :—
- (i) Association Analysis.
  - (ii) Cluster Analysis
  - (iii) Evolution Analysis. 15