# Exam. Code : 206601 <br> Subject Code : 3637 

M.Sc. Bio-Informatics $1^{\text {st }}$ Semester BI-512 DATABASE MANAGEMENT AND DATA MINING
Time Allowed-Three Hours] [Maximum Marks-75
Note :-Attempt FIVE questions, 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. (A) Discuss the advantages of using Database Approach.
(B) Discuss the responsibilities of Data Base Administrator in detail.
2. (A) Discuss the three Schema Architecture. 8
(B) Differentiate between logical data independence and physical data independence. 7 SECTION-B
3. Discuss Normalization and its forms in detail. 15
4. (A) What is a relationship type ? Explain the differences among a relationship instance, a relationship type.
(B) Write the symbols and notation used in ER Diagram.

## SECTION-C

5. (A) Write a short note on following with respect to Relational Model :
(i) Domain
(ii) Attribute
(iii) Tuple
(iv) Relational Schema. 8
(B) Discuss the entity integrity and referential integrity constraints with suitable examples. 7
6. (A) Write a short note on :
(i) Triggers
(ii) Cursors. 7
(B) Discuss the following statements with suitable SQL examples:
(i) Select
(ii) Update
(iii) Insert
(iv) Delete. 8

SECTION-D
7. (A) Discuss the role of Data Mining on Biological Data.
(B) What do you understand by Pattern Mining ?

8. (A) Discuss Data Warehouse and its role in Data
Mining.
(B) What do you understand by Association Analysis ?
