Exam. Code : 206601

Subject Code: 3637

## M.Sc. Bio-Informatics 1st 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

- (A) Discuss the advantages of using Database Approach.
  - (B) Discuss the responsibilities of Data Base Administrator in detail.
- (A) Discuss the three Schema Architecture. 8
  - (B) Differentiate between logical data independence and physical data independence.

### SECTION—B

- Discuss Normalization and its forms in detail. 3.
- (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.

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## SECTION—C

5.	(A)	Write a short note on following with respect to
		Relational Model:
		(i) Domain

- (ii) Attribute
- (iii) Tuple (iv) Relational Schema.
- (B) Discuss the entity integrity and referential integrity constraints with suitable examples.

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- (A) Write a short note on:
  - (i) Triggers
  - (ii) Cursors.
  - (B) Discuss the following statements with suitable SQL examples: (i) Select
    - (ii) Update
    - (iii) Insert
  - (iv) Delete.

# SECTION—D

- (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? 8
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