

Roll No.

Total No. of Questions : 13]

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Paper ID [C1420]

(Please fill this Paper ID in OMR Sheet)

B.Sc. BI (403) (S05/OLD) (Sem. - 4th)

MANAGEMENT OF BIOLOGICAL DATABASES

Time : 03 Hours

Maximum Marks : 75

Instruction to Candidates:

- 1) Section -A is **Compulsory**.
- 2) Attempt any **Nine** questions from Section - B.

Section - A.

(15 × 2 = 30)

Q1)

- a) Define Database System.
- b) What is the purpose of using a Data Model?
- c) What is Transaction in DBMS? Give examples.
- d) With proper example, explain meaning of a relationship in ER Model.
- e) Differentiate between Entity & Relation in Relational Model.
- f) Write four basic Set Operations applicable to Relation also.
- g) SQL is Non - Procedural Language. Explain.
- h) Write a SQL command to create a Table.
- i) What is Functional Dependency? Give Ex.
- j) Where do we need Decision Support System? Give One Application.
- k) Write full form of DBTG CODASYL.
- l) Explain relation between Canvas and Label.
- m) Define Event. Write name of Two Mouse Event.
- n) Write applications of Reports in Business.
- o) Define Data Warehouse.

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Section - B.

(9 × 5 = 45)

- Q2)** Differentiate between Network Model and Relational Model.
- Q3)** How many different types of users are there in Database System. Explain their roles.
- Q4)** Write purpose and syntax of extended relational algebra operations.
- Q5)** With proper example, show how Normal Join differs from Equi Join.
- Q6)** Draw an ER Model for any School with Proper Assumptions.
- Q7)** Take one table and show how do you find in which Normal Form that table is.
- Q8)** Explain various applications of Databases in Education.
- Q9)** Explain Basic Components of a Network Model.
- Q10)** What are integrity constraints? How do you implement them in SQL?
- Q11)** What is Developer 2000? Explain its uses.
- Q12)** What is Trigger? How do you write them in Developer 2000?
- Q13)** Explain different types of Databases.

