

- Q.19 Compare and contrast ER model and Relational model. (CO3)
- Q.20 What do you mean by functional dependency? Explain its types. (CO3)
- Q.21 What is an index? Write command for creating and using indexes. (CO5)
- Q.22 Explain ACID properties of transactions? (CO5)

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)
- Q.23 What do you mean by data independence? Explain its types in detail. (CO1)
- Q.24 Explain 3-level schema architecture of DBMS and mapping with suitable diagram. (CO2)
- Q.25 What do you mean by normal form? What is its significance? Explain various normal forms with suitable example. (CO3)

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#### 5th Sem / Artificial Intelligence & Machine Learning

#### Subject : Relational Database Management System

Time : 3 Hrs.

M.M. : 60

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is full form of BCNF? (CO3)
- Behind Code Normal Form
  - Base Code Normal Form
  - Boyce Codd Normal Form
  - Boycott Normal Form
- Q.2 Which of the following is not the type of data independence? (CO1)
- Logical data Independence
  - Physical Data Independence
  - Both A and B
  - None

Q.3 What is a primary key? (CO2)

- a) A unique identifier for each row
- b) A foreign key
- c) A composite key
- d) A super key

Q.4 The entity relationship set is represented in E-R diagram as (CO2)

- a) Double diamonds
- b) Undivided rectangles
- c) Dashed lines
- d) Diamond

Q.5 Full form of DDL is \_\_\_\_\_ (CO4)

- a) Data Describe Language
- b) Definition Data Language
- c) Data Definition Language
- d) Data Distinct Language

Q.6 What is the full name of the DBA? (CO1)

- a) Database Administrator
- b) Database Admin
- c) Database Application
- d) Database Analyst

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### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Name any two actors on the scene. (CO1)

Q.8 What is a weak entity type? (CO2)

Q.9 What is the use of Grant command? (CO4)

Q.10 Write the syntax of insert command in SQL. (CO4)

Q.11 Write the full form of RDBMS. (CO1)

Q.12 Define database schema. (CO1)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What are the basic characteristics of database approach? (CO1)

Q.14 What are the responsibilities of DBA? (CO1)

Q.15 Briefly explain Database languages. (CO2)

Q.16 What are primitive data models? (CO2)

Q.17 What do you mean by referential Integrity constraint? (CO2)

Q.18 What are various types of keys in RDBMS? (CO3)

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