

No. of Printed Pages : 4 180843/170843/120843/030843  
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**4th Sem./ Comp, IT, CNC, CAD/CAM**  
**Sub : Database Management System/RDBMS**

Time : 3 Hrs. M.M. : 100

**SECTION-A**

**Note: Multiple choice Questions. All Questions are compulsory.** (10x1=10)

- Q.1 What is the full form of DDL  
a) Data Definition Language  
b) Data Derivation Language  
c) Dynamic Data Language  
d) Detailed Data Language
- Q.2 What is row of a relation known as  
a) Degree b) Entity  
c) Tuple d) Entity Type
- Q.3 Which normal form deals with Multivalued Dependency  
a) 1NF b) 2NF  
c) 3NF d) 4NF
- Q.4 Which one of the following key is used to represent relation between the two tables  
a) Primary key b) Foreign key  
c) Candidate key d) Super key

- Q.5 Which command is used to modify a column in the table  
a) Alter b) Delete  
c) Drop d) Insert
- Q.6 E-R model is a type of  
a) Record based Model b) Object based Model  
c) Physical Model d) None of the above
- Q.7 To give permission to access a database which command is used  
a) Grant b) Revoke  
c) Commit d) Permit
- Q.8 Tool developers are  
a) Controllers b) Naive User  
c) Actors on Scene d) Workers behind the Scene
- Q.9 The overall description of a database is known as  
a) Instance b) Schema  
c) Snapshot d) View
- Q.10 Which one of the following command is used to restore the database  
a) Savepoint b) Commit  
c) Rollback d) Grant

### **Section-B**

**Note: Objective type questions. All questions are compulsory. (10x1=10)**

- Q.11 Define database.
- Q.12 Define Record.
- Q.13 What is the purpose of Commit Command.
- Q.14 Expand DCL.
- Q.15 Expand SQL.
- Q.16 What is functional dependency.
- Q.17 Define normalisation.
- Q.18 Define Primary Key.
- Q.19 Who is an End User.
- Q.20 Name any two DML Commands.

### **Section-C**

**Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)**

- Q.21 Explain the components of a Database system.
- Q.22 Write a short note on Big Data.
- Q.23 Write the advantages of a database system.
- Q.24 Explain the types of End Users.
- Q.25 Write the functions of a DBA.
- Q.26 Explain types of relationships among the entities.

Q.27 Explain Hierarchical Model.

Q.28 What is ER Diagram. Draw various symbols used in it.

Q.29 Define View. What are its uses. How it is created.

Q.30 Explain the components of SQL.

Q.31 Explain Data Independence.

Q.32 Write the anomalies in a file processing system.

Q.33 Difference between DBMS & RDBMS.

Q.34 Explain BCNF.

Q.35 Explain Cardinality Ratio.

### **Section-D**

**Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)**

- Q.36 Classify DBMS Users.
- Q.37 Explain following commands a) Create b) Insert c) Delete d) Select e) Describe
- Q.38 Explain DBMS Architecture.