**4th Sem / Branch : Comp, IT, CNC, CAD/CAM**

**Subject:- Database Management System/RDBMS**

Time : 3Hrs.  M.M. : 100

## SECTION-A

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

Q.1 Which normalization form is based on transitive dependency?

a)  1 NF  b)  2 NF

c)  3 NF  d)  BCNF

Q.2 How many levels are there in the architecture of DBMS?

a)  3  b)  2

c)  4  d)  6

Q.3 Which data structure is used in Hierarchical model record?

a)  Graph  b)  Tree

c)  Stack  d)  Linked list

Q.4 Which of the following command is used to change the data in the table?

a)  Create  b)  Drop

c)  Delete  d)  Update

Q.5 Which one of the following will help to maintain a unique record in the table?

a)  Primary Key  b)  Foreign Key

c)  Composite Key  d)  Super Key

Q.6 A row in a table is called

a)  attribute  b)  tuple

c)  domain  d)  entity

Q.7 Which one of the following is not a valid SQL command?

a)  Alter  b)  Create

c)  Permit  d)  Update

Q.8 GRANT & REVOKE are

a)  DDL  b)  DML

c)  DCL  d)  DQL

Q.9 SQL is a

a)  Procedural  b)  Non Procedural

c)  Both a & b  d)  None of the above

Q.10 Which one of the following is used to save the transaction in the database?

a)  Commit  b)  Grant

c)  Rollback  d)  Save

## SECTION-B

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

Q.11 Define Data.

Q.12 Expand DDL.

Q.13 Expand DBMS.

Q.14 Define Entity.

Q.15 Define Foreign Key.

Q.16 Who is an application Programmer?

Q.17 What is the purpose of Revoke Command?

Q.18 Name any two DML commands.

Q.19 Define File.

Q.20 Define Schema.

## SECTION-C

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

Q.21 Explain the concept of Trivial & Non Trivial dependencies.

Q.22 What do you mean by relationship among the entities?

Q.23 Write the characteristics of a database system.

Q.24 Explain the use of Grant Command.

Q.25 Explain the use of Primary Key.

Q.26 Difference between Alter & Update Command.

Q.27 Explain E R Model.

Q.28 Explain the following SQL Commands with example

a) Create          b) Insert

Q.29 Who are End Users? Explain its types.

Q.30 Write the advantages of SQL.

Q.31 Write the activities of a DBA.

Q.32 Write the disadvantages of a database system.

Q.33 Define Indexes. How it is created?

Q.34 Write a short note on Big Data.

Q.35 Explain Data Independence.

## SECTION-D

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

Q.36 Explain Relation Model.

Q.37 Define Normalisation. Explain various normal forms.

Q.38 Explain DBMS Architecture.