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**KT-95**

**B.C.A. III<sup>rd</sup> Semester (ATKT)**

**Examination, 2015-16**

**Database Mgt. System & Design**

**Paper - BCA-302**

**Time : 3 Hours]**

**[Maximum Marks : 85**

**Note :-** Section 'A' is compulsory. Attempt one short answer and one long answer question from section 'B' and section 'C'.

**SECTION - 'A'**

**Objective Type Questions**

1. Choose the correct answer :

- (i) In an ER model ..... is described in the database by storing its data.
- (a) Entity                      (b) Attribute  
(c) Relationship              (d) Notation

**P.T.O.**

(2)

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- (ii) Key to represent relationship between tables is called :
- (a) Primary key  
(b) Secondary key  
(c) Foreign key  
(d) None of the above
- (iii) ..... table store information about database or about the system.
- (a) SQL  
(b) Nested  
(c) System  
(d) None of these
- (iv) ..... is a full from of SQL.
- (a) Standard query language  
(b) Sequential query language  
(c) Structured query language  
(d) Server side query language
- (v) Grant and revoke are ..... statements.
- (a) DDL  
(b) TCL  
(c) DCL  
(d) DML

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(vi) The RDBMS terminology for a row is :

- (a) tuple
- (b) relation
- (c) attribute
- (d) degree DML

(vii) Which of the following SQL command can be used to modify existing data in a databases table ?

- (a) MODIFY
- (b) UPDATE
- (c) CHANGE
- (d) NEW

(viii) Which two files are used during operation of the DBMS :

- (a) Query languages and utilities
- (b) DML and query language
- (c) Data dictionary and transaction log
- (d) Data dictionary and query language

(ix) 4NF stands for .....

P.T.O.

(4)

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(a) Fourth Normal File

(b) Fourth Normal Form

(c) Fourth Normal Fraction

(d) Fourth Negative File

(x) The file in DBMS is called as ..... in RDBMS.

- (a) Console
- (b) Schema
- (c) Table
- (d) Object

### SECTION - B

#### Short Answer Type Questions

6×5=30

Note :- Attempt all five questions. internal choice are giving.

Each question has equal marks. (each 6)

#### Unit - I

2. What are the components of DBMS ?

OR

Define data independence.

#### Unit - II

3. What is Normalization-Why do we need normalization ?

OR

What is ER diagram ? Explain with an example.

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**Unit - III**

.. What is SQL ? Explain in detail.

**OR**

Write short note on :-

- (i) Embedded SQL
- (ii) Interactive SQL

**Unit - IV**

5. What are the difference between granting permissions and revoking permissions ?

**OR**

What is the concept of importing and exporting database file ?

**Unit - V**

6. Differentiate declarative part, executable part and executable handling part.

**OR**

Explain the following terms :-

- (i) Oracle transaction
- (ii) Looping structure
- (iii) Cursor attribute

**P.T.O.**

(6)

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**SECTION - 'C'****Long Answer Type Questions****8×5=40**

**Note :-** Attempt all five questions. internal choice are giving.

Each question have equal marks. (each 8)

**Unit - I**

7. Illustrate the difference between hierarchical and network data model. Explain why relational data model is a better choice over the two.

**OR**

Describe various components of DBMS environment discuss how they relate to each other.

**Unit - II**

8. What are the concept associated with normalization ?

**OR**

Which database model is efficient to handle one to many relationship. Explain with an example.

**Unit - III**

9. Explain any three aggregate functions of SQL with an example for each.

**OR**

Explain in briefly :-

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- (a) TCL
- (b) DML
- (c) DCL
- (d) DDL

**Unit - IV**

10. Define a data manipulation language.

**OR**

Write syntax for the following and give an example for each :-

- (i) Select statement
- (ii) Update statement
- (iii) Delete statement
- (iv) Insert statement

**Unit - V**

11. Explain the structure of index sequential file with the help of a diagram.

**OR**

What is the ORACLE Transaction ? Explain with example.

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