

Roll No.

Total No. of Questions : 9]
(2034)

[Total No. of Printed Pages : 7

**BCA (CBCS) RUSA IInd Semester
Examination**

3772

DATABASE MANAGEMENT SYSTEM

Paper : BCA-0205

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt *five* questions in all. Part-A is compulsory.
Attempt *one* question each from Parts-B, C, D and E.

Part-A

(Compulsory Question)

1. (A) Choose the correct answer :

- (i) offers the ability to query the data and insert, alter, and delete tuples.
- (a) Transaction Control Language (TCL)
 - (b) Data Control Language (DCL)
 - (c) Data Definition Language (DDL)
 - (d) Data Manipulation Language (DML)

(ii) A means that one record in a particular record type can be related to many records in another record type and vice-versa.

- (a) One-to-one relationship
- (b) One-to-many relationship
- (c) Many-to-one relationship
- (d) Many-to-many relationship

(iii) What is the name given to the database management system which is able to handle full text data, image data, audio and video ?

- (a) Full media
- (b) Graphics media
- (c) Multimedia
- (d) Hypertext

(iv) Which of the following is Database Language ?

- (a) Data Definition Language
- (b) Data Manipulation Language
- (c) Query Language
- (d) All of these

(v) Each of data files has a that describe the way the data is stored in the file.

- (a) File structure
- (b) Records
- (c) Fields
- (d) Database

(vi) A file produced by a spreadsheet.

(a) Is generally stored on disk in an ASCII text format

(b) Can be used as it by the DBMS

(c) Can be used for graphic

(d) All of these

(vii) The master list of an indexed file :

(a) Is sorted in ascending order

(b) Contains only a list of keys and record numbers

(c) Has a number assigned to each record

(d) Both (b) and (c)

(viii) A form defines :

(a) Where data is placed on the screen

(b) The width of each field

(c) Both (a) and (b)

(d) None of these

(ix) Queries to a database :

- (a) Are written in English
- (b) Can use aggregate functions like SUM and COUNT
- (c) Both (a) and (b)
- (d) None of these

(x) Column header is refer as :

- (a) Table
- (b) Relation
- (c) Attributes
- (d) Domain

1×10=10

(B) Write short notes for the following :

- (i) Entity Relationship Model
- (ii) Direct Files
- (iii) First Normal Form
- (iv) Primary Key
- (v) Dependency Prevation

4×5=20

Part-B

10×1=10

Note :- Attempt any *one* question.

2. Elaborate the points that make DBMS a better choice as compared to traditional file-based systems.
3. What is data abstraction in DBMS and what are its three levels ?

Part-C

10×1=10

Note :- Attempt any *one* question.

4. What do you mean by indexing ? How many types of indexes are there ? Explain.
5. How is indexing done using B-Tree Structure ?

Part-D

10×1=10

Note :- Attempt any *one* question.

6. Explain the Third Normal form and BCNF in detail.
7. What is Functional Dependency ?

Part-E

10×1=10

Note :- Attempt any *one* question.

8. Write the steps to create a query. Distinguish between Design Area and Design Grid of Query Design window.
9. What is Report ? What are the different report views ? Elaborate.