S-715

Total Pages : 4 **Roll No. ----------**

PGDCA-07/MSCIT-07

Fundamental of Database Management System

(MCA/PGDCA/MSCIT)

2nd Semester, Examination 2022(Dec.)

Time: 2 Hours Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

Q.1. What is Database Management System (DBMS)? Explain the architecture and modeling techniques of Database Management System (DBMS)?

Q.2. What is the difference between Relational data model and Entity-Relationship Model? Explain with the help of an example.

Q.3. What are the different data types of SQL? Also Explain different constraint used in SQL. Explain with help of suitable example.

Q.4. What is Data Independence? What is the difference between Logical and Physical data Independence?

Q.5. What do you mean by SQL? Is it a procedural or non-procedural language? What is the significance of delimiter in SQL? Also explain SQL control structure.

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

Q.1. What is data model? Explain Hierarchical data model.

Q.2. What is Relation, Tuple, Attribute? Explain.

Q.3. How many types of database users? Also explain their roles.

Q.4. Write syntax to:

a. Create a table

b. Inserting data in the table

c. Fetching data from table (with and without where clause)

Q.5. Specify the term DDL, DML in your words. Also give correct examples and commands of each.

P.T.O.

Q.6. What do you mean by join? How many types of join are there? Explain with suitable example.

Q.7. Describe various relational operators that are used in Relation Algebra.

Q.8. Explain 'order by' and 'group by' SQL query with example.

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