S-774

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

MCS-505

Database Management System

(MCA/MSCIT)

2nd /4th 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. (a) Discuss and differentiate between database and flat file system.

(b) Explain the elements of database using suitable diagram.

Q.2. (a) What are the different uses of database?

(b) Explain the components of DBMS.

Q.3. (a) What are the characteristics of SQL?

(b) Explain all the aggregate function using suitable example.

Q.4. (a) What is data independence? Why is data independence important?

(b) What are the five main functions of database administrator?

Q.5. (a) Define Network data model in brief with example.

(b) Define integrity constraints with suitable example.

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. Define foreign key. What is the concept used for this? How does it play a role in the join operation? Explain through example.

Q.2. Define client server architecture of distributed database.

Q.3. Explain the concept of database security with suitable example.

Q.4. How many types of back up in database? What are the tools available for back up?

P.T.O.

Q.5.   What are the different types of keys?

Q.6.   Explain the different types of failure.

Q.7.   Discuss the relative advantages of centralized and distributed database.

Q.8.   Explain the reason why recovery of interactive transaction is more difficult than recovery of batch transaction.

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