USCST05 - Computer Science Paper-I
Database Management & System Analysis

P. Pages : 1   ‖‖‖‖‖‖‖‖‖   **GUG/W/22/11602**

Time : Three Hours   * 3 7 4 7 *   Max. Marks : 50

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Notes :   1.   All questions are compulsory and carry equal marks.
          2.   Draw neat and labelled diagram wherever necessary.
          3.   Avoid vague answers and write answer relevant and specific to question only.

Either:

1.   a)   Enlist the disadvantages of DBMS.   **5**

     b)   Explain DBA & functions of DBA.   **5**

OR

     c)   Create a Database which represent Record based Logical model.   **5**

     d)   How two databases becomes object based logical model? Explain.   **5**

Either:

2.   a)   Explain 1NF (First Normal Form) with example.   **5**

     b)   What is Functional Dependency? Explain.   **5**

OR

     c)   Enlist the Codd's Rules.   **5**

     d)   Explain 4NF (Fourth Normal Form) with example.   **5**

Either

3.   a)   Explain Components of system.   **5**

     b)   Discuss Decision table with example.   **5**

OR

     c)   How Questionnaires act as a information gathering tools? Explain.   **5**

     d)   What are the Sources for information gathering tools.   **5**

Either:

4.   a)   Explain Form Design with example.   **5**

     b)   Explain types of documentations used in system Design.   **5**

OR

     c)   Enlist the advantages of documentation of system.   **5**

     d)   Write a note on Nature of Test Data.   **5**

5.   Solve all questions.

     a)   Write a note on DBMS Environment.   **2½**

     b)   What is Relational Database structure.   **2½**

     c)   Write a note on observation method.   **2½**

     d)   Explain output Design.   **2½**

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