

Bachelor of Science (B.Sc.)-II (CBCS Pattern) Third Semester CBCS
USCST05 -Computer Science Paper-I
Database Management & System Analysis

P. Pages : 2

Time : Three Hours



GUG/W/18/11602

Max. Marks : 50

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

1. Either

- a) Explain DBMS in detail. 5
- b) What is DBA? Enlist the functions of DBA. 5

OR

- c) Discuss the components of DBMS. 5
- d) Discuss object base logical model. 5

2. Either

- a) Explain Codd's rules. 5
- b) Explain First Normal Form (1NF) with example. 5

OR

- c) Differentiate between 2NF and 3NF. 5
- d) Explain Fifth Normal Form (5NF) with example. 5

3. Either

- a) Explain the Data flow diagram used in structure analysis. 5
- b) Explain the components used in system. 5

OR

- c) Describe Decision table used in system analysis. 5
- d) Explain the advantages of Questionnaires over Interview. 5

4. Either
- a) What is Form? Explain form Design in detail. 5
 - b) What is Documentation? Explain types of documentation. 5

OR

- c) How hardware selection is done for implementation of system? Explain. 5
 - d) Discuss maintenance of a system in detail. 5
5. Solve all questions.
- a) Write a note on Data Processing. 2½
 - b) Write a note on cartesian product. 2½
 - c) Write a note on Data Dictionary. 2½
 - d) Explain output Design. 2½
