

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

P. Pages : 2

Time : Three Hours



**GUG/W/24/11602**

Max. Marks : 50

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagrams and use supporting data wherever necessary.
  3. Avoid vague answers and write specific points / answers related to questions.

**Either:**

1. a) What are the functions of DBA? Explain. 5
- b) Explain three tier Architecture of DBMS. 5

**OR**

- c) What is DBMS? Explain any two DBMS software. 5
- d) Explain hierarchical Record Based Logical Model. 5

**Either:**

2. a) Explain types of functional dependency. 5
- b) What is normal form? Explain 2NF in detail. 5

**OR**

- c) What are the advantages of Third Normal Form? 5
- d) Explain in details 1NF Normal Form with example. 5

**Either:**

3. a) Explain Decision Tree with example. 5
- b) Explain the components of system. 5

**OR**

- c) Distinguish between Interview and Questionnaires. 5
- d) Explain PAIS model in detail. 5

**Either:**

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|-----------|----|--|----------|
| <b>4.</b> | a) | What is Form Design? Enlist the objectives of Form Design. | <b>5</b> |
|           | b) | Explain in details Input Design.                           | <b>5</b> |

**OR**

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|-----------|----|---|-----------|
|           | c) | Explain Parallel method strategy with advantages and disadvantages. | <b>5</b>  |
|           | d) | How Software selection is done in DBMS? Explain.                    | <b>5</b>  |
| <b>5.</b> |    | Attempt all the questions.  |           |
|           | a) | Write a note on Data Model?   | <b>2½</b> |
|           | b) | Explain Foreign Key.  | <b>2½</b> |
|           | c) | What is observation?  | <b>2½</b> |
|           | d) | Explain Documentation.  | <b>2½</b> |

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