

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

P. Pages : 2

Time : Three Hours



**GUG/S/25/11602**

Max. Marks : 50

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

**Either :**

1. a) Explain in brief components of DBMS. 5
- b) Define Entity? Explain Entity-Relationship Model. 5

**OR**

- c) Write disadvantages of DBMS? 5
- d) Explain data processing in detail. 5

**Either :**

2. a) What is relational algebra? Explain it. 5
- b) Describe First Normal Form in detail. 5

**OR**

- c) What is Foreign key? Explain rules of foreign key. 5
- d) Explain function dependency in details. 5

**Either :**

3. a) Explain any five data flow diagram. 5
- b) Explain system analysis in detail. 5

**OR**

- c) What is information gathering tools? Explain it. 5
- d) Explain in detail decision table. 5

**Either :**

4. a) What is testing? Explain any one level of testing. 5
- b) What is output design? Explain in detail. 5

**OR**

- c) Define maintenance? Explain types of maintenance. **5**
- d) What is documentation? Explain types of documentation. **5**

**5.** Attempt all the questions.

- a) Explain DBA. **2½**
- b) Define primary key. **2½**
- c) Write a note on Data Dictionary. **2½**
- d) Explain privacy in system design. **2½**

\*\*\*\*\*