

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

P. Pages : 2
Time : Three Hours



GUG/S/23/11602
Max. Marks : 50

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- Notes : 1. All questions are compulsory & 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) Explain data abstraction with example. 5
b) Write a note on DBMS Environment. 5

OR

- c) Discuss the disadvantages of DBMS. 5
d) Explain disadvantages of DBMS. 5

Either:

2. a) Explain functional dependency in detail. 5
b) Discuss Second Normal Form (2NF) with example. 5

OR

- c) Differentiate between 3NF and 4NF. 5
d) Write a note on database structure. 5

Either:

3. a) Explain the PARIS Model. 5
b) Write a note on: 5
i) Interviews ii) Questionnaires

OR

- c) What is observation in system analysis? Explain. 5
d) Explain document analysis in detail. 5

Either:

4. a) Explain Input Design with example. 5
b) Explain Quality assurance in detail. 5

OR

- c) What is Nature of Test Data? Explain. 5
d) Explain Conversion in detail. 5
5. Solve **all** questions.
- a) Write a note on Database. 2½
b) Explain join operator with suitable example. 2½
c) Write a short note on data dictionary. 2½
d) Write a note on Privacy of documentation. 2½
