

B.Sc.-I (Information Technology) (CBCS Pattern) Semester - II
UBITT205.1 - Paper-V (Elective-I)
Database Management System

P. Pages : 2

Time : Three Hours



GUG/S/23/10925

Max. Marks : 80

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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 answers relevant and specific to questions only.

Either:

1. a) What are the differences between a traditional file processing system and a DBMS? How does a DBMS help overcome the limitations of a file processing system? 8
- b) What are the main categories of DBMS users? Describe each category. 8

OR

- c) Explain the three tier architecture proposal for a DBMS. 8
- d) What are the role and responsibilities of a DBA help ensure proper functioning and maintenance of a database system? 8

Either:

2. a) What is functional dependency in a relational database? Give an example. 8
- b) Compare and contrast the hierarchical and network data models. Give an example of each. 8

OR

- c) Describe the Entity Relationship Model and its components. 8
- d) What is normalizations in a database? Explain the difference between 1NF and 2NF with an example. 8

Either:

3. a) Describe the different field types in Access and its features. 8
- b) Describe how to edit a table in Access and provide an example of when you might need to. 8

OR

- c) What is a query in Access? Describe the different types of queries and when to use them. 8
- d) Explain form in Access and how it is used. Give an example. 8

Either:

4. a) Describe the different types queries in Access and give an example. 8
- b) What is an Access form and how is it used? Give an example. 8

OR

- c) What is an Access Report explain with suitable example. 8
- d) Explain the process for creating an Access Report, including different report types. 8
5. Attempt **all** the questions.
- a) What is data mapping in the context of a DBMS? 4
- b) What is Codd's Rule? 4
- c) Write the purpose of different elements in an Access database. 4
- d) What is filtering in Access? 4
