

B.C.A.-I (CBCS Pattern) Semester - II
UBCAT205.1 - Paper-V (Elective-I) : Database Management System with MS-Access

P. Pages : 2

Time : Three Hours



GUG/S/23/11716

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 is the relationship between the database environment and the DBMS environment? **8**
- b) What is data mapping in the context of a DBMS? Why it is important to establish a clear mapping between logical and physical data structure of a database. **8**

OR

- c) Discuss the advantages and disadvantages of using a DBMS. **8**
- d) What facilities does a typical DBMS provide? How do these facilities help ensure efficiency security, and reliability of a database system. **8**

Either:

2. a) Explain the purpose of relational algebra in DBMS. Describe the basic operations with suitable example. **8**
- b) What is Codd's Rules? Describe it's three main components and their significance in relational database design. **8**

OR

- c) Compare and contrast the approaches of the relational and hierarchical models to data organization write an example of each. **8**
- d) Explain the concept of 3NF in database normalization with suitable example. **8**

Either:

3. a) Explain the purpose of different element in an Access database and how they work together to manage data. **8**
- b) Describe different field types in Access and when to use them. **8**

OR

- c) Explain the process of creating table in Access using Design view and the Table Wizard. **8**
- d) What is a report in Access and how it is used? Give an example of when to use a report. **8**

Either:

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| 4. | a) | What is filtering in Access and how is it used? Give an example. | 8 |
| | b) | How do you specify criteria in a Access query? How can you use multiple criteria to refine result? | 8 |

OR

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|-----------|----|---|----------|
| | c) | What is an Access macro and how it is used? Give an example. | 8 |
| | d) | Explain the process for creating an Access form, including different form types and examples of when to use them. | 8 |
| 5. | | Attempt all the questions. | |
| | a) | What are the role and responsibilities of a DBA? | 4 |
| | b) | What is functional dependency in a relation database? | 4 |
| | c) | What is a query in Access? | 4 |
| | d) | Define | 4 |
| | | i) Form | |
| | | ii) Report. | |
