

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/W/23/10925**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw a neat and labelled diagram.  
3. Avoid vague answers.

**Either:**

1. a) Classify the type of database user. 8  
b) What are the elements of DBMS? 8

**OR**

- c) Explain three level architecture of DBMS. 8  
d) List the advantages and disadvantage of DBMS. 8

**Either:**

2. a) Explain following functional dependency with suitable example. 8  
i) Full functional dependency.  
ii) Partial dependency.  
b) Explain E.F. Codd's 12 Rules for RDBMS in detail. 8

**OR**

- c) Explain with example. 8  
i) Network data model.  
ii) Relational Data model.  
d) What is normalization? Explain 2<sup>nd</sup> normal form. 8

**Either:**

3. a) List the features of MS- Access. 8  
b) Explain the various datatype supported by MS- Access. 8

**OR**

- c) Write a procedure to: 8  
i) Insert a record.  
ii) Deleting the record.

d) Differentiate between DBMS and RDBMS. 8

**Either:**

4. a) What do you mean by forms? Write a procedure to create a form. 8

b) What is Action Query? Explain following types of action query. 8

i) Update query.

ii) Append query.

**OR**

c) List the various relational and logical operator supported by MS- Access. 8

d) What is report? Explain different elements of report. 8

5. Attempt all the questions.

a) What do you mean by file based processing. 4

b) Explain: 4

i) Entity set

ii) Attributes

c) What do you mean by table? Explain. 4

d) Explain parameter query with example. 4

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