

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/24/10925

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data whenever necessary.
 3. Avoid vague answer and write specific answer related to question.

Either :

1. a) Explain the three level Architecture proposals in DBMS. 8
- b) Write the advantages and disadvantages of DBMS. 8

OR

- c) Explain following terms: 8
 - i) Data Redundancy
 - ii) Data Integrity
 - iii) Data Isolation
 - iv) Data Dependency
- d) Differentiate between file based system and DBMS Environment. 8

Either :

2. a) What is normalization? Explain any two types of normal forms. 8
- b) Explain Relational Database structure in detail with example. 8

OR

- c) Define mapping cardinality. Explain different types of mapping cardinality. 8
- d) Write a note on: 8
 - i) Transitive Dependency.
 - ii) Multivalued Dependency.

Either :

3. a) Explain various datatypes used in MS-Access. 8
- b) Discuss the significance of data validation. How it can be implemented? 8

OR

- c) Give the difference between Design view and Datasheet view. 8
- d) Write a procedure to 8
 - i) Selection of word
 - ii) Deleting a record

Either :

- 4. a) What do you mean by Query? Write any two types of queries supported by MS-Access. 8
- b) List and explain two components of Query designer. 8

OR

- c) Write a procedure to create a form in MS-Access. 8
- d) Define operator. List different types of operators used in Queries. 8

- 5. Solve all the questions.
- a) List the various functions of DBA. 4
- b) Write a note on Denormalization. 4
- c) Enlist different elements of Report. 4
- d) Explain Parameter Query. 4
