

Roll No.

Total No. of Pages : 02

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B.Sc. (IT) (Sem.-2)
DATABASE MANAGEMENT SYSTEMS

Subject Code : UGCA-1922

M.Code : 77654

Date of Examination : 08-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Answer the following :

- a) What are Joins in DBMS?
- b) Describe the use of DDL statements.
- c) What are the advantages of BCNF?
- d) What is the use of Primary and Candidate key in database tables?
- e) What do you mean by serializable schedule?
- f) What is PL/SQL? What it is used for?
- g) What is the significance of Database Administrator?
- h) Differentiate between relational and network data model.
- i) What is the use of stored functions in DBMS?
- j) Describe the uses of DBMS in business.

SECTION-B

2.
 - a) What do you mean by DBMS? Explain the components of Database Management System in detail with the help of a diagram.
 - b) What is the use of Relational data model? How is it different from Entity-Relationship model?
3. Describe the following with examples :
 - a) Join and Multi-values dependencies
 - b) DML statements
4. What do you mean by Normalization? What is the importance of Normalization in databases? Differentiate between various normal forms with suitable examples.
5.
 - a) What are the different aspects of Database Recovery? Why is it needed and how is it implemented?
 - b) What is the role of Database concurrency in DBMS?
6. Write brief notes on :
 - a) Three level Architecture of DBMS
 - b) Database Triggers
7. What do you mean by Distributed DBMS? Explain its design in detail by giving suitable examples.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.