Roll No. ...324839........

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BCA-202

B.C.A. (Second Year) Examination, 2019

DATABASE MANAGEMENT SYSTEM

Paper–II

Time Allowed : Three Hours

Maximum Marks : 100

PART–A   [Marks : 20

Answer all questions (50 words each).

All questions carry equal marks.

PART–B   [Marks : 50

Answer **five** questions (250 words each), selecting **one** question from each Unit. All questions carry equal marks.

PART–C   [Marks : 30

Answer any **two** questions (300 words each).

All questions carry equal marks.

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PART-A

1. Answer the following questions :

   (i) Define the Data definition language.

   (ii) What do you mean by Entities ?

   (iii) Define the Foreign Key.

   (iv) What is Domain ?

   (v) What is SQL ?

   (vi) What are SQL operators ?

   (vii) What do you mean by Virtual record ?

   (viii) What is DBTG ?

   (ix) Define the Sequential file.

   (x) What is Hash function ?

PART-B

UNIT-I

2. Explain the main functions of a Database Administration.

3. Explain the mapping constraints of E-R diagram with example.

UNIT–II

4. Illustrate Relational database objects.

5. Explain the difference between the Candidate key, Primary key and Alternate keys.

UNIT–III

6. What are the characteristics of SQL ?

7. How are Data retrieved using views ? How are views updated ?

UNIT–IV

8. What are Network models ? Explain the DBTG Data retrieval facility.

9. Explain the Hierarchical models. Discuss its basic concept and tree structure diagram.

UNIT–V

10. Explain the B-tree index files with an example.

11. Compare Sequential and Random Files Organisation.

PART–C

12. Describe the E-R model. How E-R diagram is reduced into table ? Explain by taking a suitable an example.

13. Write short notes with an example :

    (a) Kind of relations.

    (b) Foreign key rules.

14. What is Embedded SQL ? State and explain any tree table expressions with the help of an example.

15. Discuss DBTGCODASYL model and also explain the retrieval and update facility.

16. Differentiate between the following :

    (a) Indexing and Hashing

    (b) Sequential and Random Files Organization

    (c) Logical and Physical Files Organization.