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Reg. No. : .....

Name : .....

Fourth Semester B.Sc./BCA Degree Examination, July 2019

Career Related FDP Under CBCSS

Group2(b) - Computer Science / Computer Applications

Core Course - CS 1442/CP 1443

DATABASE MANAGEMENT SYSTEMS

(2014 Admission Onwards)

Time : 3 Hours Max. Marks : 80

SECTION – A (Very Short Answer Type)

(One word to maximum one sentence, Answer **all** questions)

1. What is DBMS?
2. Define key.
3. What is data model?
4. Write the syntax of drop command.
5. Define relational algebra
6. What is domain?
7. Define Schema.
8. What is Functional dependency?

9. Define entity.

10. Explain about data dictionary.

(10 × 1 = 10 Marks)

SECTION – B (Short Answer)

(Not to exceed one paragraph, answer any **EIGHT** questions. Each question carries **2** marks

11. Explain about relational data model.

12. Differentiate between primary key and foreign key.

13. Write the syntax of ALTER command with example.

14. Define SELECTION with an example.

15. Write the syntax of UPDATE command with example.

16. Define BCNF.

17. Explain transitive dependency.

18. Explain partial dependency.

19. Describe different types of relationships in ER Model.

20. Differentiate between strong and weak entity.

21. Define data Integrity.

22. Write the syntax of CREATE TABLE command with example?

(8 × 2 = 16 Marks)

SECTION – C (Short Essay)

(Not to exceed 120 words, answer any **six** questions. Each question carries **4** marks)

23. List and explain the advantages of DBMS.
24. Write a short note on set operations on relations.
25. Write the syntax of DELETE command with examples.
26. Explain about relational calculus.
27. Describe different types of constraints used in SQL.
28. Write short note on projection with example.
29. Explain about inference axioms.
30. Discuss database security.
31. Briefly explain different type of attributes used in ER Model.

(6 × 4 = 24 Marks)

SECTION – D (LONG ESSAY)

(Answer any **TWO** questions. Each question carries **15** marks)

32. Write in detail about DBMS Architecture.
33. Explain about the different types of join operations.
34. What is Normalization? Explain 1NF, 2NF and 3NF.
35. Explain ER Model in detail. Also draw an ER Diagram for a banking Enterprise.

(2 × 15 = 30 Marks)