QP CODE: 19101707

19101707

Reg No : .....

Name : .....

B.Sc/BCA DEGREE (CBCS) EXAMINATION, MAY 2019

Second Semester

Core Course - **CS2CRT04 - DATA BASE MANAGEMENT SYSTEMS**

(Common for B.Sc Computer Applications Model III Triple Main ,Bachelor of Computer Application)

2017 ADMISSION ONWARDS

96FA2823

Maximum Marks: 80 **Time: 3 Hours**

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. Define data, database and DBMS
2. What is DBA ?
3. What is a schema? Give example.
4. Define Foreign Key and Super Key.
5. Explain Entity Relationship Model.
6. What is drop command?
7. Write a note on pattern matching in DBMS?
8. Briefly explain the set operations in SQL?
9. What is the need of normalization in database?
10. What is the minimal normal form that a relation must satisfy?
11. State dirty read problem?
12. What you mean by granting of privileges?

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What is data independence? Explain the different types of data independence?
14. Write about DBMS Languages?

15. What are the characteristics of a relation?

16. Discuss the concept of Referential Integrity. Give Examples.

17. Differentiate EXISTS and UNIQUE functions.

18. Explain aggregate functions with example.

19. Discuss the different types of Functional dependency.

20. Describe the BCNF with an example

21. Explain Access Control.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Describe DBMS component modules?

23. Explain the following
    (a) structural constraints (b) relationship types (c) relationship sets

24. (a) Define SELECT query. Explain each clause of SELECT query with suitable examples
    (b) INSERT and UPDATE commands in SQL

25. Explain the types of single level ordered indexes?

(2×15=30)