

Sixth Semester B.A.(CS) Degree Examination, April/May 2019

(CBCS Scheme)

Computer Science

DATABASE MANAGEMENT SYSTEMS

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : ALL Sections are compulsory.

SECTION – A

Answer any **TEN** of the following.

(10 × 1 = 10)

1. Define database.
2. What is query?
3. What is entity?
4. Define derive attributes.
5. Define tuple.
6. What is domain?
7. Define normalization.
8. What do you mean by null value?
9. Write a syntax of create command in SQL.
10. What is primary key?
11. Define schema.
12. Write difference between varchar and varchar2.

SECTION – B

Answer any **FIVE** of the following.

(5 × 3 = 15)

13. Explain any three applications of DBMS.
14. Mention any three disadvantages of file processing system.
15. What are the components of ER diagram?
16. Define the following :
 - (a) Foreigner key
 - (b) Super key
 - (c) Candidate key.
17. What are different datatypes used in SQL?
18. Explain 1NF in detail.
19. Explain projection operation in dbms with example.

SECTION – C

Answer any **SIX** of the following.

(6 × 5 = 30)

20. Explain three schema architecture.
21. Mention different types of keys.
22. Explain 2-tier client server architecture.
23. What are the steps involved in the implementation of normalization?
24. Explain different types of attributes.
25. Explain BCNF.
26. Explain operations of relational algebra.
27. Explain aggregation in SQL.

SECTION - D

Answer any **FIVE** of the following.

(5 × 7 = 35)

28. (a) Explain different types of database users.

(b) Features of DBMS.

(3 + 4)

29. Explain data models.

30. Write functions of DBA.

31. Explain types of binary relationships.

32. Explain how to build database in MS-Access.

33. Explain the following :

(a) DDL

(b) DML

(c) DCL.

34. Explain join operations in detail.
