



K19U 0563

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS-Reg./Supp./Imp.) Examination,
April 2019**

(2014 Admission Onwards)

GENERAL COURSE IN COMPUTER SCIENCE

4A13CSC : Database Management System

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word answer.** **(8×0.5=4)**
- a) Expand XML.
 - b) Entities are described in a database by a set of
 - c) A predicate expressing a condition that we wish the database always to satisfy
 - d) Which is a binary operation that allows us to combine certain selection and a Cartesian product into one operation ?
 - e) The collection of information stored in the database at a particular moment is called
 - f) Example of a derived attribute
 - g) _____ keys represent relationship between entities.
 - h) The process of designating subgroupings within an entity set is called

SECTION – B

Write short notes on **any seven** of the following questions. **(7×2=14)**

- 2. What is schema ?
- 3. What is assertion ?
- 4. What a null value signifies ?

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5. What is a schema diagram ?
6. What are aggregate function ?
7. What is integrity constraint ? Give one example.
8. What are the requirements for a trigger ?
9. What is the use of CREATE command ?
10. Differentiate naive users and application programmers.
11. What is functional dependency ?

SECTION – C

Write short notes on **any four** of the following questions.

(4×3=12)

12. Explain foreign key with an example.
13. How to declare and invoke an SQL function ?
14. Explain union operation with an example.
15. Explain the formal definition of domain relational calculus.
16. Discuss transaction management.
17. Explain the components of SQL.

SECTION – D

Write short notes on **any two** of the following questions.

(2×5=10)

18. Discuss the disadvantages of file processing system.
 19. Explain different set operations.
 20. Draw the ER diagram for Online shopping and explain.
 21. Discuss Cartesian product operation with the help of an example.
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