



K18U 0924

Reg. No. :

Name :

IV Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)

Examination, May 2018

(2014 Admn. 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) _____ a collection of conceptual tools for describing data, data semantics and consistency constraints.
 - b) Which problem is compounded when constraints involve in several data items from different file ?
 - c) Procedural language and Non Procedural language in _____
 - d) _____ describes the logical structure of a database graphically.
 - e) Normalization is developed by _____
 - f) BCNF stands for _____
 - g) _____ is allow to combine the information from two relations.
 - h) If the tuple variables are all bound variables in a WFF is called _____

SECTION – B

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

- 2. What is database management system ?
- 3. What is data abstraction ?
- 4. What do you mean by normalization database ?

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5. List out the different types of DML languages in database.
6. What is Triggers ?
7. Define materialized view.
8. Write note on DCL commands.
9. What do you mean by assertion ?
10. What are the two types of multi valued dependency ?
11. Why use DROP command in SQL ?

SECTION – C

Answer **any four** of the following questions :

(4×3=12)

12. What are the different levels in data abstraction ?
13. Differentiate a file processing system and a DBMS.
14. Explain 2NF and 3NF. Write example.
15. What are the disadvantages in hierarchical data model ?
16. Explain difference and intersection, Cartesian production relational algebra.
17. What do you mean by relational calculus ?

SECTION – D

Write an essay on **any two** of the following questions.

(2×5=10)

18. Explain with detail fundamental operation in relational algebra.
19. Explain Entity relational model with example.
20. Brief note on Relational calculus.
21. Explain in detail 1NF, 5NF and BCNF.