

K17U 0620

Reg. No. : .....

Name : .....

IV Semester B.Sc. Degree (CBCSS-Reg./Supple./Imp.)

Examination, May 2017

(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)

- \_\_\_\_\_ is a complete set of fields.
- The overall design of the database is called \_\_\_\_\_
- A decomposition that is not lossy-join is called \_\_\_\_\_
- \_\_\_\_\_ command is used to delete the table.
- \_\_\_\_\_ is a virtual table based on the result-set of an SQL statement.
- The collection of information stored in the database is called \_\_\_\_\_
- \_\_\_\_\_ level is also called conceptual level.
- \_\_\_\_\_ statements are used for managing data within schema objects.

SECTION – B

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

(7×2=14)

- What is functional dependency ?
- What is an Integrity Constraint ?
- Write the syntax of Update query and explain its function.
- What is selection operation in relational algebra ?
- Define primary key.

P.T.O.



7. Write a note on E-R model.
8. Explain about COMMIT command.
9. Explain the components of SQL.
10. What is DBMS ?
11. What is view ?

## SECTION – C

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

(4×3=12)

12. What is SQL ? Explain about the features and data types of SQL.
13. Which are the different types of keys ?
14. What is normalization ? Explain about 3NF and BCNF.
15. Distinguish between centralized, two tier and three tier architecture.
16. Discuss about the enhanced properties of E-R diagram.
17. Write a note on ALTER Command.

## SECTION – D

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

(2×5=10)

18. Discuss about the advantages and disadvantages of DBMS.
19. What is a transaction ? Explain about four properties of a transaction.
20. What is a relational model ? Explain about different concepts of relational model in detail.
21. What do you mean by Database Administrator ? Explain functions of DBA.