



K16U 0697

Reg. No. :

Name :

IV Semester B.Sc. Degree (CBCSS – 2014 Admn. – Regular)

Examination, May 2016

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 the primary goal of the database.
 - The structure of the database is _____
 - The overall design of the database is called _____
 - _____ is used to combine related tuples from two relations.
 - _____ command is used to create a table.
 - _____ is also known as project – join normal form.
 - The appearance of the data for end users is known as _____
 - The collection of information stored in the database is called _____

SECTION – B

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

- Write a note on E-R model ?
- Define foreign key ?
- What is projection operation in relational algebra ?
- What is the usage of INSERT Command ?
- What is functional dependency ?
- Explain about the database languages.
- Explain about the following :
 - Trigger
 - Cursor.

P.T.O.



9. Briefly explain about different keys used in relational model.
10. Explain about transaction control statements in SQL.
11. Clearly explain three schema architecture.

SECTION - C

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

(4×3=12)

12. What is a Join ? Explain equi-join and natural-join.
13. What is DBMS ? What are the different application areas of DBMS ?
14. Explain components of SQL.
15. What is Integrity Constraint ? Clearly explain different ICs ?
16. Write a note on ALTER Command.
17. Explain about the following :
- a) Decomposition
 - b) Dependency preservation
 - c) Multivalued dependency.

SECTION - D

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

(2×5=10)

18. Explain E-R Data model.
19. What is a relational model ? Explain about different operators of relational model in detail.
20. Write a detailed note on Normalization.
21. Explain about the following :
- a) CREATE
 - b) ALTER
 - c) DROP
 - d) UPDATE
 - e) DELETE.