K16U 0697

IV sem

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)**
   a) _____ is the primary goal of the database.
   b) The structure of the database is _____
   c) The overall design of the database is called _____
   d) _____ is used to combine related tuples from two relations.
   e) _____ command is used to create a table.
   f) _____ is also known as project – join normal form.
   g) The appearance of the data for end users is known as _____
   h) 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)**

2. Write a note on E-R model ?
3. Define foreign key ?
4. What is projection operation in relational algebra ?
5. What is the usage of INSERT Command ?
6. What is functional dependency ?
7. Explain about the database languages.
8. Explain about the following :
   a) Trigger b) 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.
