K17U 1855

Reg. No. : .....

Name : .....

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./ B.T.T.M./B.C.A./B.S.W./B.A. Afsal-Ul-Ulama Degree (CBCSS – Reg./Sup./Imp.) Examination, November 2017
(2014 Admission Onwards)
Open Course
5D03 BCA : DATABASE MANAGEMENT SYSTEM

Time : 2 Hours Max. Marks : 20

SECTION – A

Answer **all** questions. **(8×.5=4)**

1. A software package to facilitate the creation and maintenance of a computerized database is called _____
2. _____ is a person who has central control over the data and programs that access data in a DBMS.
3. In a DBMS, _____ facility is used to define the database conceptual schema.
4. _____ is a pool of values from which actual values appearing in a given column are drawn.
5. _____ relational operation selects tuples from a relation satisfying a given condition.
6. _____ command of SQL enable us to remove table definitions.
7. If every non prime attribute A of a relation R is fully functionally dependent on the primary key of R, then R is said to be in _____
8. An entity set without having a primary key is called _____.

SECTION – B

Write short notes on **any three** of the following questions. **(3×2=6)**

9. Define the terms degree, cardinality and primary key of a relation.
10. Define 3NF.

P.T.O.

11. Distinguish between database schema and database instance.
12. Explain INTERSECT command with syntax.
13. What is a trigger ?

SECTION – C

Answer **any two** of the following questions. **(2×3=6)**

14. Briefly explain various DDL commands with syntax.
15. What are the basic concepts of E-R model ?
16. Explain about various unary relational algebraic operations.
17. Explain any four column constraints used in SQL.

SECTION – D

Write an essay on **any one** of the following questions. **(1×4=4)**

18. Explain about various data models used to describe the design of a database.
19. Consider the following relations :

    WORKS (Pname,Cname,City)
    LIVES(Pname,Street,City)
    LOCATED_IN(Cname,City)
    MANAGER(Pname,Mgrname)

    Give an SQL DDL definition of this database with necessary integrity constraints.

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