

K16U 1910

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 UI Ulama Degree  
(CBCSS – 2014 Admn. – Regular) Examination, November 2016  
Open Course  
5D03BCA : DATABASE MANAGEMENT SYSTEM

Time : 2 Hours

Max. Marks : 20

SECTION – A

Answer all questions.

(8×0.5=4)

1. A collection of centrally controlled, integrated and logically organized data is known as \_\_\_\_\_
2. In a DBMS, \_\_\_\_\_ facility is used for specifying database retrievals and updates.
3. \_\_\_\_\_ defines a set of associations among several entities from entity types.
4. The SQL keyword used to sort the result is \_\_\_\_\_
5. \_\_\_\_\_ normal form is based on the concept of transitive dependency.
6. The cardinality of the resultant relation of a Cartesian product operation on two relations with cardinality of 5 and 6 each is \_\_\_\_\_
7. The command to remove rows from a table 'CUSTOMER' is \_\_\_\_\_
8. Entity types that do not have key attribute of their own are called \_\_\_\_\_

SECTION – B

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

(3×2=6)

9. How can we differentiate between a primary key and a foreign key ?
10. Distinguish between relational algebra and relational calculus.
11. Write the syntax of the DML command DELETE.
12. Define the join operation in relational algebra.
13. What is an object identifier ? Explain with an example.

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SECTION - C

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

(2×3=6)

14. What are the duties of a database administrator ?
15. Discuss join operation and division operation.
16. What do you mean by a data model ? Explain about any two popular data models.
17. Write short notes on triggers and views.

SECTION - D

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

(1×4=4)

18. Draw an ER diagram for an educational institution. Identify the appropriate entities, attributes and relationships.
19. a) Explain about various aggregate functions available in SQL.  
b) Explain with example, the following relational algebraic operations :
  - i) Union
  - ii) Projection
  - iii) Selection.

SECTION - B

(3×2=6)

P.T.O.