



M 7519

Reg. No. :

Name :

III Semester B.C.A. Degree (CCSS – Reg./Supple./Imp.)

Examination, November 2014

BCA – CORE COURSE

3B06 BCA : Database Management Systems

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of 4 questions is 1 :

1. _____ is a graphical expression of the logical structure of a database.
2. Relationship sets among closely related entity sets are expressed by _____
3. Relational algebra is a _____ language.
4. _____ is a predicate expressing a condition that a database always has to satisfy.
5. The collection of information stored in the database at a particular moment in time is called _____
6. An association among several entities is called _____
7. The highest level of abstraction is described by the _____
8. A set of attributes which collectively identify an entity uniquely is called _____

(2×1=2)

SECTION – B

Answer **any 5** questions :

(Weightage : 1 each)

9. Define transitive dependency.

10. What are keys ?

P.T.O.



11. When can you say a table is in 3NF ? Explain.
12. What is lossy decomposition ?
13. What is entity integrity ?
14. List the basic steps in query processing.
15. Differentiate between a weak and strong entity set.
16. What is a relational database ?

(5×1=5)

SECTION – C

Answer **any 5** questions : (Weightage : 2 each)

17. Explain the term normalization.
18. Discuss the conventions used in an E-R schema.
19. Explain the term data independence.
20. Explain domain relational calculus.
21. Define the steps in creating views in SQL.
22. What are the different categories of database users ?
23. Discuss the various join operations.
24. Describe the various domain types in SQL.

(5×2=10)

SECTION – D

Answer **any 1** question.

Weightage : 4

25. Construct an E-R diagram for a car insurance company whose customers own one or more cars. Each car has associated with zero or more accidents.
26. Explain the various normal forms.

(1×4=4)