



US – 650

**II Semester B.C.A. Examination, May 2017
(Y2K8 Scheme) (Repeaters)
COMPUTER SCIENCE
BCA – 205 : Database Management Systems**

Time : 3 Hours

Max. Marks : 70

SECTION – A

Answer any ten questions. Each question carries one mark.

(10×1=10)

1. Define data.
2. Give any two examples of database.
3. Define schema.
4. What is data model ?
5. What is ER-model ?
6. Define an entity.
7. How are storage devices classified ?
8. Define primary key.
9. Define a tuple.
10. Mention the purpose of DROP command.
11. Define PL/SQL.
12. Define transaction.

SECTION – B

Answer any five questions. Each question carries three marks.

(5×3=15)

13. What are the functions of DBMS ?
14. Differentiate between centralized and distributed DBMS.
15. Write any three responsibilities of DBA.
16. Explain CREATE command with an example.
17. Define foreign key. Why is the concept used for ?

LIBRARY

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18. Explain unary relational operation selection (σ) with an example.
19. Discuss the primary goals of normalization.
20. Define terms :
 - a) Track
 - b) Sector
 - c) Cylinder

SECTION – C

Answer **any five** questions. **Each** question carries **seven** marks.

(5×7=35)

21. Write a short note on users of DBMS.
22. Explain PL/SQL architecture.
23. Explain different types of attributes.
24. Define EQUIJOIN operation. Explain with an example.
25. Define normal forms. Explain 1 NF, 2 NF and 3 NF with an example.
26. Define DML. Explain INSERT and UPDATE statements with an example.
27. Explain three-tier client-server architecture of DBMS.
28. Explain ACID properties of transaction.

SECTION – D

Answer **any one** question. **Each** question carries **ten** marks.

(1×10=10)

29. Draw an ER-diagram for COLLEGE database by taking necessary entities and attributes.
30. A LIBRARY database has a table with the following attributes :
LIBRARY (BookId : Number, Title : text, Author : text, Publisher : text, Price : Number, Year : Number)
 - a) Create the table LIBRARY
 - b) Insert three tuples
 - c) Delete/remove a specific tuple
 - d) Display all tuples/records.