



SA – 913

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II Semester B.C.A. Degree Examination, April/May 2015
(Y2K8 Scheme) (2008-09 and Onwards)

COMPUTER SCIENCE

(70 Marks – 2011-12 and Onwards/60 Marks – Prior to 2011-12)

BCA-205 : Database Management Systems

Time : 3 Hours

Max. Marks : 60/70

Instructions : 1) Section – A, B, C are common to all . Section – D is applicable to 2011-12 batch onwards.

2) 70 marks for students from 2011-12 batch onwards.

60 marks for repeater students prior to 2011-12.

SECTION – A

Answer **any ten** questions. **Each** question carries **one** mark.

(10×1=10)

1. Define DBMS.
2. Name different types of data model.
3. What is schema diagram ?
4. Write down any four DDL commands.
5. Define primary key.
6. Define entity.
7. What is hashing ?
8. What is a cursor ?
9. Define transaction.
10. What is SQL ?
11. What is atomic attribute ?
12. Define Lock.

SECTION – B

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

(5×3=15)

13. What are drawbacks of traditional DBMS ?
14. Define DBA. Write any two responsibilities of DBA.

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15. Discuss the types of Locks in brief.
16. Explain aggregate functions in SQL.
17. Explain CREATE command with an example.
18. Differentiate centralized and distributed DBMS.
19. Explain database languages in brief.
20. Define the terms :
 - i) Track
 - ii) Cylinder
 - iii) Sector.

SECTION – C

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

(5×7=35)

21. Explain advantages of DBMS.
22. Write a note on DBMS interfaces.
23. Explain client server architecture with a neat diagram.
24. Define functional dependency. What are its properties ?
25. Explain different database users.
26. Explain three schema architecture with a neat diagram.
27. Explain 1st NF, 2nd NF and 3rd NF with example.
28. Explain ACID properties of transaction.

SECTION – D

Note : Section – **D** should be answered by students of **2011-12** batch onwards **only**.

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

(1×10=10)

29. a) Write a note on DBMS Languages.
b) Write any five applications of DBMS. **(5+5)**
 30. Draw and explain ER diagram for COMPANY database by taking necessary attributes.
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