



DCCA203

Reg. No.

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II Semester B.C.A. (NEP) Degree Examination, October - 2022

COMPUTER SCIENCE

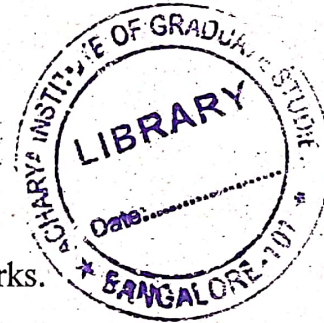
Database Management System

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer any four questions from each section.



SECTION - A

Answer any 4 questions. Each question carries 2 marks.

(4×2=8)

1. Define Database and Database Management system.
2. What is data model? Name three categories of data model.
3. What is key attribute? Give an example.
4. List data types allowed in SQL.
5. What is transaction control language? List any two transaction control commands.
6. What is concurrency control?

SECTION - B

Answer any 4 questions. Each question carries 5 marks.

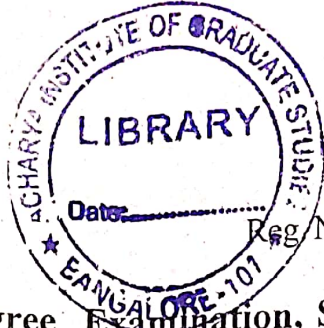
(4×5=20)

7. Explain the main characteristics of Database approach.
8. What is data independence? Explain briefly about the types of data independence.
9. What is an ER diagram? Explain different notations used in drawing ER diagram.
10. Create an employee table using the following fields.

Field name	Data type
EMPNO	NUMBER
ENAME	CHAR
DOB	Date

[P.T.O.]





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II Semester B.C.A. Degree Examination, September/October - 2022

COMPUTER SCIENCE
DATABASE MANAGEMENT SYSTEM

Paper : BCA 204 T
(CBCS Scheme)

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

Answer all sections.

SECTION - A

Answer any TEN questions. Each question carries two marks. (10×2=20)

1. What is DBMS?
2. Define data impendence.
3. What is an entity?
4. Define RAID.
5. Define primary key.
6. Define hashing.
7. What is DML?
8. What is relational algebra?
9. List any two advantages of PL/SQL.
10. List the data types allowed in SQL.
11. Define cursor.
12. What is a transaction?

[P.T.O.]





SECTION - B

Answer any FIVE questions. Each question carries 10 marks.

(5×10=50)

13. a) Explain different people behind DBMS. (5)
b) Write the advantages of DBMS. (5)
14. a) Explain the architecture of DBMS. (5)
b) Explain different types of relationships used in DBMS. (5)
15. a) Discuss any five differences between distributed DBMS and centralized DBMS. (5)
b) Draw an ER diagram for Student Database system. (5)
16. a) Explain normalization and its types. (5)
b) Explain selection and projection operation in relational algebra with example. (5)
17. a) Write a note on operations on files. (5)
b) Explain any one Secondary storage device. (5)
18. a) Define the terms tuple, domain and attribute with suitable example. (5)
b) Explain set operations in SQL. (5)
19. a) The student detail database has a table with following attributes.
STUDENT (regno: int, name: String, dob: date, marks: int)
i) Create the above table.
ii) Remove the existing attribute marks from the table.
iii) Change the datatype of regno from integer to string.
iv) Add a new attribute phone - no to the existing table.
v) Enter one tuple into the table. (5)
b) Explain while loop in PL/SQL with an example. (5)
20. a) Define time stamp. Explain any two methods. (5)
b) Explain different types of Locks. (5)