

2411001102030001
EXAMINATION FEBRUARY-MARCH 2024
B. SC. (I. T.) (M. SC. (I. T.) 5 YEAR INTEGRATED COURSE)
(SECOND SEMESTER) (NEP)
MINOR-INTRODUCTION TO DBMS - LEVEL 3

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a) Name of the Examination: **B. SC. (I.T.) (M. SC. (I.T.) 5 YEAR INTEGRATED COURSE) (SECOND SEMESTER) (NEP)**
 - b) Name of the Subject: **MINOR-INTRODUCTION TO DBMS LEVEL 3**
 - c) Subject Code No: **2411001102030001**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer in Short (Any 10)

10

1. What is composite attribute?
2. Explain replace() string function.
3. What do you mean by Mapping Cardinality?
4. What is Big Data?
5. Define: Data Models.
6. Define: Schema & Instance
7. What is Data Redundancy?
8. What is weak entity set?
9. What is Transaction?
10. Write the difference between DROP & DELETE.
11. What is FLOOR() function?
12. What will be the output for following query?
Select max(salary) from employee group by depname;

Q.2 [A] Attempt the following (Any 2)

10

1. Write a Short note on: Database Languages.
2. Draw an ER Model for Online Library Management System.
3. Explain Specialization and Generalization with proper example.

[B] Explain in detail ACID properties of transaction. 4

Q.3 [A] Attempt the following (Any 2) 10

1. Discuss NoSQL database in detail.
2. List out various Aggregate function. Explain any four with proper examples.
3. Explain various datatypes of MySQL.

[B] Discuss limitations of Traditional File Management System. 4

Q.4 Attempt the following (Any 3) 12

1. **Explain in short:**

- a) MongoDB
- b) Distributed Database

2. Explain Primary Key & Foreign Key with Example.

3. Consider table Employee (empid, ename, hiredate, salary, comm, deptno).

- a) List department-wise maximum salary.
- b) Increase salary by 5000 whose deptno is 35.

4. Consider table Employee (empid, ename, hiredate, salary, comm, deptno).

- a) Write a query to display details of employees whose name starts with 'N' and ends with 'a'.
- b) Write a query to delete employees who works deptno 30.
