



**B.Sc. IV Semester Degree Examination, Sept./Oct. - 2024**

**COMPUTER SCIENCE**

**DSC 4 : Database Management System**

**(NEP)**

Time : 2 Hours

Maximum Marks : 60

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**SECTION - A**

**I.** Answer the following questions. Each question carries **one** mark. **10x1=10**

1. (a) Define Database Management System.
- (b) What is Database Schema ?
- (c) What is weak Entity ?
- (d) Define Degree of a Relationship.
- (e) Define Tuple.
- (f) What is PL/SQL ?
- (g) What is Normalization ?
- (h) What is Functional Dependency ?
- (i) What are Transactions ?
- (j) Define Concurrency.

**SECTION - B**

**II.** Answer **any four** of the following questions. Each question carries **five** marks.

2. Discuss various types of database languages. **4x5=20**
3. Explain Cardinality ratio of a relationship.
4. Explain the relational model constraints.
5. What is Decomposition ? Explain its types.
6. Discuss the types of failures.
7. Write a note on PL/SQL.



**SECTION - C**

**III.** Answer **any three** of the following questions. Each question carries **ten** marks. **3x10=30**

8. Explain the three schema architecture with a neat diagram.
9. What is attribute ? Explain different types of attributes with an example.
10. Explain aggregate functions with an example.
11. Explain 1NF, 2NF and 3NF with an example.
12. Explain the desirable properties of transaction.

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