Roll No. _____

SIVS-191 A-17
B.Sc. IVth Semester Degree Examination
Computer Science
(Database Management System)
Paper : CS-401

Time : 3 Hours

Maximum Marks : 80

SECTION - A

L Answer **all** questions :

(15 × 1 = 15)

1) What is Data Dictionary?

2) Define Primary Key.

3) What is Data Redundancy?

4) Expand ACID.

5) Define Attribute.

6) What is Recursive relationship?

7) What is Transaction rollback?

8) Write the syntax for DROP command.

9) Define Tuple.

10) What is Database Schema?

11) What is an Entity? Give example.

12) What is Dead lock?

13) What is SQL and PL/SQL?

14) What is a view?

15) Expand DDL, TCL.

SECTION - B

II Answer any **FIVE** of the following :   (5 × 5 = 25)

16) Who is a DBA? What are the responsibilities of DBA?

17) What is Data Independence? Explain different types of data independence.

18) Explain different data types in SQL.

19) Differentiate between database schema and database state.

20) What are the advantages of creating a view? Explain with example.

21) Write a short on Database Recovery Techniques.

22) Explain Key constraints of relational model.

SECTION - C

III Answer any **FOUR** of the following :   (4 × 10 = 40)

23) Explain SELECT and PROJECT operations of Relational Algebra with example.

24) What is Data Model? Explain the classification of data models.

25) Define Normalization. Explain 1NF and 2NF with an example.

26) What is ER-model? Explain different notations with their meaning.

27) Explain the concept of database security and database integrity.

28) Write a note on Transaction processing.

✦ ✦ ✦ ✦