

DBMS 03

Roll No

Total No. of Questions: 6 (six).

Total No. of Printed Pages: 1

Duration (hrs.): 3 Hrs

Maximum Marks: 60

Note:

Attempt any FIVE questions. All the questions carry equal marks

Marks for sub-questions are indicated in bracket against them.

Make appropriate assumptions where necessary.

1.

- a. Compare HDBM with NDBM. (5)
- b. Describe conceptual evolution of a simple select query. Illustrate with an example. (5)
- c. Define 'object set'. (2)

2.

- a. Describe constraints for SECOND normal form. Illustrate with an example. (6)
- b. Describe constraints for THIRD normal form. Illustrate with an example. (6)

3.

- a. Compare RDBM with conceptual DB model. Describe TWO characteristics of Conceptual DB Model? (7)
- b. Describe constraints for FIRST normal form. Illustrate with an example. (5)

4.

- a. Explain INTERSECT operation with an example. (4)
- b. Explain 'Natural join'. Illustrate with an example. (4)
- c. Explain UNION operation with an example. (4)

5.

- a. Briefly describe history and evolution of SQL. (4)
- b. Explain cross product of two relations with an example. (4)
- c. Explain EXCEPT operation with an example. (4)

6.

- a. Briefly describe historical background of RDBM. (4)
- b. Briefly explain history and evolution of DB models. (4)
- c. Define RDBM. Why is it called 'relational'? (4)