

THREE YEAR B.C.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2017

THIRD SEMESTER

Part II

**DATABASE MANAGEMENT SYSTEMS**

*Time : 3 Hours*

*Max. Marks : 75*

**SECTION – A**

Answer any FIVE of the following questions.

(Marks : 5 × 5 marks = 25 marks)

1. Define the following terms.
  - (a) Data
  - (b) Information
  - (c) Database.
2. List the problems with file processing system.
3. Write a brief note on set operators.
4. Contrast strong Entity Vs Weak Entity.
5. Write a note on SQL operators.
6. List different types of select statements in SQL.
7. Write a brief note on joins.
8. Explain COMMIT and ROLLBACK statements in SQL.
9. What is a transaction? List the properties of transaction.
10. What is time stamping? How it is used in concurrency control?

**SECTION – B**

Answer any FIVE of the following questions.

(Marks : 5 × 10 marks = 50 marks)

11. Write detailed note on files and file system.
12. What is DBMS? Explain the advantages of Database Management System.
13. Explain the Codd's relational database rules.
14. What is ER model? Explain different types of relationships.

15. Write a detailed note on SQL data types.
  16. Explain DDL and DML commands with examples.
  17. Write a detailed note on SQL sub queries and correlated queries.
  18. Explain aggregate functions and numeric functions in SQL with examples.
  19. What is concurrency control? Explain concurrency control with locking methods.
  20. Write a detailed note on database recovery management.
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