



22523/E 230

Reg. No.

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V Semester B.C.A. 2 Examination, November/December 2018
DATABASE MANAGEMENT SYSTEM
(Repeater)

Time : 3 Hours

Max. Marks : 80

Instructions : i) Answer the questions as per instructions.

ii) Draw neat diagram.

SECTION – A

Answer **any ten** of the following questions. **Each** question carries **2** marks.

(10×2=20)

1. Define DBMS.
2. Define Data Model. List categories.
3. Define Data Independence. Mention their types.
4. Define relation.
5. Give different DBMS languages.
6. Who is endusers ? Mention their categories.
7. Define attribute and entity.
8. Define functional dependencies.
9. List the ACID properties of Transaction.
10. List the types of locks.
11. Write syntax and example of CREATE TABLE command.
12. Define primary key and foreign key.

SECTION – B

Answer **any six** of the following questions. **Each** question carries **5** marks.

(6×5=30)

13. Explain various actors on the scene.
14. Discuss characteristics of relation.
15. Explain types of attributes.
16. Draw and name the various symbols used for notation in ER Diagram.
17. Explain the datatypes in SQL.
18. Explain SELECT and PROJECT operation.
19. Explain desirable ACID properties of transaction.
20. Explain the types of locks for concurrency control.

P.T.O.



SECTION – C

Answer **any three full** questions. **Each** question carries **10** marks.

(10×3=30)

21. Discuss the advantages of DBMS in detail. **10**
22. a) Draw the ER diagram for company database.
b) Explain types of datamodels. **(6+4)**
23. Explain various DBMS Interfaces. **10**
24. a) Explain 1NF and 2NF Normal Form.
b) Explain UPDATE and INSERT SQL command. **(5+5)**
25. a) What do you mean by recovery in transaction processing ? Discuss various failures w.r.t. recovery.
b) Explain workers behind the scene. **(5+5)**
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