

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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PGDCA 1st Semester

1128

DATABASE MANAGEMENT SYSTEM

Paper—PGD-1103

Time Allowed : Three Hours]

[Maximum Marks : 60

Note :— Attempt *five* questions, selecting *one* question each from Unit-I, II, III, IV and question No. 1 is compulsory.

(Compulsory Question)

1. Write in short :—

2×6

- (i) Enlist different causes of failure.
- (ii) Define concurrency.
- (iii) Enlist the characteristics of DBMS ?
- (iv) What are distributed databases.
- (v) What are Null values ?
- (vi) Define View.

UNIT—I

- 2. (1) How Physical data – independence is different from logical data independence ? 6
- (2) Discuss in detail Database System Architecture. 6
- 3. (1) What is an E-R model ? Discuss the role of ER diagram in the design of relational database. 6
- (2) Explain various components of DBMS. 6

UNIT—II

4. (1) What is normalization ? Discuss the advantages of normalizations. 6
- (2) What is Database Security ? Why it is important ? 6
5. (1) Explain relational calculus and relational algebra, and in what are their advantages ? 6
- (2) What are privileges ? How do we grant and revoke privileges ? 6

UNIT—III

6. (1) What is pattern matching ? How is it performed from a table ? 6
- (2) What are Aggregate functions ? Explain different aggregate functions with example. 6
7. (1) What is query ? Explain the complete syntax for performing a query in SQL. 6
- (2) Write syntax how are they performed in SQL : 6
1. Alter table
2. Drop table

UNIT—IV

8. (1) Write advantages and disadvantages of creating a view. 6
- (2) Define transaction. How do we save and undo a transaction ? 6
9. (1) What are set operators ? Explain different set operators with help of example. 6
- (2) What are joins ? Explain different types of outer joins with help of example. 6