

TED (15) - 3132

Reg. No.....

(REVISION - 2015)

Signature

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

DATABASE MANAGEMENT SYSTEM

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. Name two DCL commands.
2. Define NULL value.
3. Write the SQL command to retrieve all the data from STUDENT table.
4. List four aggregate functions.
5. Define Normalization.

(5×2 = 10)

PART — B

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. Distinguish data, information, field, record, file and database.
2. Compare hierarchical, network and relational models.
3. Explain Enhanced ER diagram with Subclass Superclass and Inheritance.
4. Define Domains, Attributes and Tuples.
5. Explain Super key, Candidate key, Primary key and Composite key
6. An EMPLOYEE table contains attributes (EMPID, NAME, DATE_OF_BIRTH, DEPARTMENT). Write SQL Queries.
 - (a) To create the EMPLOYEE table with the mentioned attributes.
 - (b) To add two rows of data to the EMPLOYEE table.
 - (c) To display the number of employees from each department.
7. Describe Functional Dependency.

(5×6 = 30)

PART — C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

- III (a) Explain the advantages of DBMS. 9
 (b) Define Centralised and Client-Server Database Systems. 6

OR

- IV (a) Explain Component Modules of DBMS. 9
 (b) Explain Data Independence. 6

UNIT — II

- V (a) Explain different entity types. 3
 (b) Distinguish different Attribute types. 6
 (c) Explain two binary relational operations in relational algebra with example. 6

OR

- VI (a) Explain Unary Relational Operations. 9
 (b) Draw the ER diagram of an Online Book Database. 6

UNIT — III

- VII (a) Compare two different database connectivity. 8
 (b) What is meant by Cursor ? Explain the steps to create and use Cursors. 7

OR

- VIII (a) Compare INNER JOIN and OUTER JOIN. 7
 (b) Explain Transactions and its operations. 8

UNIT — IV

- IX (a) Describe the concept of Data Mining Technology. 9
 (b) Explain Parallel DBMS. 6

OR

- X (a) Describe the concept of Data Warehousing. 9
 (b) Describe the Distributed DBMS. 6
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