

TED (15) 3132
(Revision-2015)

A20-00907

Reg.No.....
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, APRIL-2020

DATABASE MANAGEMENT SYSTEMS

[Maximum marks: 75]

(Time: 2.15 Hours)

PART – A

(Answer any *three* questions in one or two sentences. Each question carries 2 marks)

- I. (1). Define database system.
(2). Define degree of a relation.
(3). Discuss the use of Having clause.
(4). State the use of Triggers.
(5). Define Functional Dependency. (3 x 2 = 6)

PART – B

(Answer any *four* of the following questions. Each question carries 6 marks)

- II. (1). Explain Three scheme Architecture with a diagram.
(2). Write various application areas of DBMS.
(3). Summarize the notations used in ER diagrams.
(4). Describe different JOIN operations in Relational Algebra.
(5). Explain the different states of Transaction.
(6). Write short note on Data Warehousing.
(7). Differentiate Parallel DBMS and Distributed DBMS. (4 x 6= 24)

PART – C

(Answer *any of the three units* from the following. Each question carries 15 marks)

UNIT –I

- III. (a). Explain the Component modules of DBMS. (10)
(b). List different data base users. (5)

OR

- IV. (a). Write note on Centralized and Client/Server Architecture. (7)
(b). List the Advantages of DBMS over File processing system. (8)

UNIT-II

- V. (a). Explain the mapping of ER model to Relational model. (7)
(b). Discuss various Keys in RDBMS. (8)

OR

- VI. (a). Explain Generalization and Specialization in Enhanced ER diagram. (8)
(b). Discuss the use of views with suitable examples. (7)

UNIT-III

- VII. (a). Discuss the use of stored procedure with example. (8)
(b). List and Explain the operations using 'ALTER TABLE' command. (7)

OR

- VIII. (a). Describe any five DBMS constraints. (7)
(b). Explain the method of authorizing on data and revoking privileges. (8)

UNIT-IV

- IX. (a). State the need for data normalization. (6)
(b). Explain Data mining and knowledge Discovery. (9)

OR

- X. (a). Explain the various data management issues in mobile database. (6)
(b). State the Object Oriented Data Base Concepts. (9)