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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

DATABASE MANAGEMENT SYSTEMS

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'n	Timo	10	-3	hours
а	THILL	+	-	HOULS

(Maximum marks: 100)

PART - A

(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. Write the different database users.
 - 2. Define entity set.
 - 3. What is domain?
 - 4. Define Normalization.
 - 5. List the uses of ALTER command.

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 $(5 \times 2 = 10)$

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PART—B
(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - 1. Write the advantages and disadvantages of DBMS.
 - 2. Write three schema architecture with diagram.
 - 3. What is relationship set? Write about its different types.
 - 4. Compare 1 NF and 2 NF.
 - 5. Write the following operations with example.
 - (a) SELECT
- (b) PROJECT
- (c) RENAME
- Write the features of SQL.
- 7. What is view ? List their advantages.

 $(5 \times 6 = 30)$

PART — C

(Maximum marks: 60)

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

Unit — I

		Citi	
Ш	(a)	Describe the Application Areas of DBMS.	6
	(b)	Compare Hierarchical, Network and Relational models.	9
53		OR	
IV	(a)	Describe DDL, DML, DCL.	9
	(b)	Explain parallel and distributed databases.	6
		Unit — II	
v	(a)	A DEL CONTROL DE CONTR	6
	(b)	Explain Binary relational operations. OR Describe Specialization and Generalization.	9
		OR 3-112	
VI	(a)	Describe Specialization and Generalization.	6
ja .	(b)	Explain UML class diagrams with example	. 9
= 34		UNIT — III	
VII	(a)	Describe different constraints.	9
	(b)	Explain concurrent execution in transaction.	6
		OR	
VIII	(a)	Describe multivalued dependency.	6
	(b)	What is Transaction ? Explain the properties of transaction.	9
		Unit — IV	
IX	(a)	Comparé ORDERBY and GROUPBY clauses with example.	6
	(b)	Write short notes on:	
1	``	(i) Triggers (ii) Cursors (iii) Stored Procedures.	9.
		Or	
X	(a)	Explain SQL data types.	5
	(b)	Explain aggregate functions.	10