## Relational Database management system

Time: Three Hours Maximum Marks: 30 **Note:** Total *five* questions are to be attempted. Selecft *one* question from each unit. Question No. 1 is compulsory.

## **Compulsory Question**

1. Attempt all the following:

(a) Explain Select operation with example.

(3)

(D)	Define INF and 2NF. (3)
(c)	Explain the meaning of Full functional dependence
	with example. (3)
(d)	Describe the syntax of six clauses of SQL query
	command. (3)
(e)	Write the limitations of SQL.
(f)	Explain different literals in PL/SQL.
	UNIT-I
(a)	Write down the various Cood's rules for relational
	model. (6)
(b)	Explain Project, Cartesian product, Join & Division
	operations with example. (10)
Wh	aat is the basic difference between Table-oriented and
טסו	main-oriented relational calculus? Explain by giving
Sui	table examples. (16)
(a)	
()	to? How did the normal forms develop historically?
	(8)
(b)	Discuss Insertion, Deletion and Modification
	anomalies. Why are they considered bad? Illustrate
_	with example. (16)
De	fine and explain 3NF & BCNF by taking suitable
CX	umple. (16)
W/h	nat do you mean by SQL ? Explain the data tyepes
ava	allable in SQL. Also explain how does SQL implement
diff	Ferent integrity constraints with example. (16)
(a)	
	(10)
(b)	Write short note on Views in SQL. (6)
	UNIT-IV
(a)	Define Identifier and its rules in PL/SQL. Explain
	different methods of assigning values to variable.

2.

3.

5.

6.

7.

8.

- Also explain percentage datatype, % type and % Row type. Explain with example If-Then-elsif statement and Exist-when statement.
- 9. Write a program in PL/SQL to compute L.C.M. of two numbers. (16)