6.	(a)	Briefly describe the concept of 'Vie	ews'	No. of Printed Pages: 04	Roll No	
		in SQL. Also write how 'Views' can be				
		specified in SQL ?	9	D212		
	(b)	List and explain different schema chastatements.	ange 6	B.C.A. EXAMINA	B.C.A. EXAMINATION, May 2019	
	Unit IV			(Fourth Semester) (B. Scheme) (Main & Re-appear)		
7.	(a)	Discuss the concept of PL/SQL execu	tion	(BCA)		
		environment. Also write the advantages		BCA204B		
		of PL/SQL.	8	RELATIONAL DATABASE MANAGEMENT		
	(b)	(b) What are different PL/SQL control		SYSTEMS		
		structures ? Explain.	7			
8.	Write short notes on the following:			Time: 3 Hours]	[Maximum Marks: 75	
	(a)	Cursors		Before answering the question-paper candidates		
	(b)	Triggers.	15	•	ave been supplied to correct paper. No complaint, in this ed after the examination.	
				•	uestions in all, selecting at tion from each Unit. All equal marks.	

(3-06/3) M-D212

P.T.O.

310

4

M-D212

## Unit I

- (a) What are different Codd's Rules for Relational Model? Illustrate.
  - (b) Discuss the various types of inner join operations. Why is theta join required?

8

**2.** (a) Compare and contrast Tuple relational Calculus and domain relational calculus.

7

(b) Discuss the DIVISION operation. How is it represented, and what are the requirements of the numerator and denominator relation? Explain with an example.

## **Unit II**

What do you mean by Normalization? Also explain 2NF, 3NF and BCNF with suitable examples.

2

M-D212

- **4.** (a) What is Data Redundancy? What are the consequences of redundancy within a database?
  - (b) List and explain different type of functional dependencies ? Also write characteristics of functional dependencies.

8

## **Unit III**

- 5. (a) Describe the different types of constraints which you can specify in SQL. 9
  - (b) Write SQL update statements to perform the following queries in the student' table mentioned below.

Table: Student

Name	Student_number	Class	Major
Amit	15	1	CS
Sumit	8	2	CS

- (i) Insert a new student, <'Vijay', 25, 1, 'Math'>, in the student table.
- (ii) Delete the record for the student whose name is 'Sumit' and whose student number is 8. 6

(3-06/4) M-D212

3

P.T.O.