Roll No	Total Pages : 2

BCA/M21

1896

RELATIONAL DATABASE MANAGEMENT SYSTEM

Paper-BCA-244

Time allowed: 3 Hours		allowed: 3 Hours Ma	ximum Marks: 80
Note	e:	Attempt five questions in all, selecting one quest Question No. 1 is compulsory. All questions carry eq	
		Compulsory Question	
1.	(i)	i) Write short note on Selection Operation in Relation	nal Algebra. 4
	(ii)	ii) Write short note on Functional Dependencies as	nd Fully Functional
		Dependencies.	4
	(iii	iii) Explain various Data Types in SQL with examples	s. 4
	(iv	iv) Write short note on PL/SQL Architecture.	4
		UNIT-I	
2.	(i)	i) Explain the 12 Codd's rules in RDBMS?	8
	(ii)	ii) Define Relational Calculus. Explain various type	es of Relational
		Calculus.	8
3. Define Relational Algebra. Explain the Projection, Join and Di		in and Division	
	Or	Operations with suitable examples.	16
		UNIT-II	
4.	What do you mean by Anomalies? Explain the various update anomal		update anomalies in
	RI	RDBMS along with suitable examples.	16
5. Explain		Explain the following normal forms along with suitable	examples: 16
	(i)	i) 1 NF (ii) 2 NF	
	(iii	iii) 3NF (iv) BCNF.	
		UNIT-III	
6.	Ex	Explain various DML and DCL Commands in SQL al	ong with their
	pu	ourpose, syntax and examples.	16
7.	Ela	Elaborate on Aggregate Functions, Views and Nested (Queries in SQL with
	sui	uitable examples.	16
		UNIT-IV	
8.	Ex	Explain the various Control Structures in PL/SQL along	g with their purpose,
	Syl	yntax and examples.	16

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- 9. (i) What is the purpose of Triggers in PL/SQL. Elaborate on different types of Triggers. Give suitable examples.
 - (ii) What is the purpose of Cursors in PL/SQL. Elaborate on different types of Cursors. Give suitable examples.

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