First Year B.C.A (Semester - II) Examination Paper - 15BCA111 Relational DBMS

Time: Three hours] [Full Marks - 60 N.B.: i)Due Credit will be given to neatness and adequate dimensions. Assume Suitable data wherever necessary. ii) Illustrate your answer if necessary, with the iii) help of neat sketches. *Use Blue / Black ink only for writing the* answers. O.1 Choose correct alternative. 5 a) The collection of data items called as. Data Name ii) Data record iii) Data File iv) DBMS b) In Relational Model, the number of rows in a table is termed as ii) Relation Domain iv) Degree iii) Cardanality c) Which of the following is not in SQL component. DML ii) DDL i) iii) DSL iv) DCL d) Which of the following is not Aggregate Function. i) AVG() ii) SUM() iii) ABS() iv) COUNT() e) In PL/SQL, PL stand for. **Programming Logic** Programming Language Procedural Language

Procedural Logic

Q.2	a) b)	Explain Architecture of DBMS in detail. Write any four differences between DBMS &	7	b)	What is Database Manipulation Language? Explain SELECT, DELETE command with syntax	
		RDBMS.	4		and example.	4
				c)	What is Clause? Explain any two clauses with	
		OR			proper example.	3
Q.3	a)	What is Data Models? Explain with their types in		Q.8 a)	Explain any SIX Number function with syntax,	
		detail.	7		meaning, example and Result.	6
	b)	Explain Advantages and disadvantages of DBMS.	4	b)	Explain Group/Aggregate function with syntax,	
					meaning, example and Result.	5
Q.4	a)	What is Normalization? Explain with 1NF, 2NF,				
		3NF with proper example.	7		OR	
	b)	Write any four differences between 3NF and		Q.9 a)	Explain any SEVEN character function with syntax,	
		BCNF.	4	Q.7 a)	meaning example and Result.	7
				b)		,
	OR			0)	Example and Result for following.	4
					i) To_Number ii) To_Char	•
Q.5	a)	What is Relational Algebra? Explain following set			i) ro_namer	
		operations with proper example.	7	O.10 a)	What is PL/SQL? Explain with its advantages.	4
		i) Union ii) Intersection iii) Cartesian Prod	uct	b)		4
		iv) Minus/difference		c)		3
	b)	What is E-R Diagram? Explain with symbol used in		•,	•	·
		E-R Diagram with proper example.	4		OR	
0 1	,	****		Q.11 a)	What is Cursor? Explain with Implicit cursor &	
Q.6	a)	What is SQL? Explain with Advantages and	4	7	Explicit cursor with proper example.	7
		Disadvantages of SQL.	4	b)	Explain PL/SQL basic used in PL/SQL.	4
	b)	Explain ANY FOUR SQL Data types in detail.	4			
	c)	Explain components of SQL in brief.	3			
		OR				
Q.7	a)	What is DDL? Explain following DDL commands				
Q.7	a)	with proper syntax and their example.	4		*****	
		i) CREATE ii) ALTER	7			
		i, Chaire ii, Mailin				