(4)

9.	Des	cribe the following with examples :		А		(Printed Pages	5 4)
	(a)	Insert	2			Roll. No	
	(b)	Grant	2				
	(c)	MAX	2			S-765	
	(d)	UPPER	2		B.S	c.(Part-III) Examination, 2015	
	(e)	BETWEEN	2			Introduction to DBMS-SQL	
	(f)	LIKE	1			(Old Course)	
						Paper-III	
						(BCS-303)	
				Time	Allow	ved : Three Hours] [Maximum Marks :	75
				Note	e:/	Answer five questions in all. Question N	lo.1
					i	s compulsory. Attampt one quest	tion
					f	from each of the four Units.	
				1.	Expl	ain the following in brief :	
					(a)	Candidate Key and Composite Key.	3
					(b)	Database Users	3
					(c)	Relational Calculus	3
					(d)	Database Managers	3
					(e)	DDL	3
					(f)	Conceptual View	3

(2)

	(g)	Entity and Attributes	3				
	(h)	Transaction	3				
	(i)	Concurrency Control	3				
	(j)	Data Repository	4				
Unit-I							
2.	Wha	at are ACID properties of a database?	Ex-				
	plair	11					
3. (a) What is Function		What is Functional Dependency? Give s	suit-				
		able example.	5				
	(b)	What is Project Operator in Relationa	I AI-				
		gebra? Give one example.	6				
Unit-I I							
4.	(a)	What is the difference between 3NF	and				
		BCNF of a database? Explain	5				
	(b)	What is the difference between Logical and					
		Physical Data Independence?	6				
5.	Define the following terms						
	(a)	Entity Integrity	4				
	(b)	Refrential Integrity	4				
	(c)	Join	3				

(3)
Unit-III
What is File Organization? Define Random Ac-
cess File Organization with example. 11
Draw the E-R diagram of musician who per-
forms for album. Assume any four entities.
Indicate all key and constraints with assump-
tions that are made? 11
Unit-I V
Consider following Deletional Algebras Colores

8.	Consider following Relational Algebra Schema		
	STUDENT (RNO, Name, DOB, Percentage,		
	DNO)		

DEPARTMENT (DNO, DNAME, HEAD)

6.

7.

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Write Relational Algebra expressions.

- Find Student's name and course from (i) Computer Department. 4
- Get the Student's name who has per-(ii) centage greater than 70. 4
- (iii) Find the Student's name start with 'A' and end with 'C'. 3

P.T.O.