## DATABASE MANAGEMENT SYSTEM

(For those who joined in July 2008 and 2009)

Time: Three hours Maximum: 75 marks

SECTION A  $-(10 \times 1 = 10 \text{ marks})$ 

Answer ALL questions.

Choose the correct answer.

1.	There are available.	— physical	physical data models			
	(a) 3	(b) 2				
	(c) 4	(d) 5				
2.	A DBMS is a collection of — files.					
	(a) abstract	(b) interr	elated			
	(c) physical	(d) logical				
	A second form of relational calculus is					
	(a) tuple	(b) domai	n			
	(c) formal	(d) querie	S			

4.	4. A delete request is expressed as a ————.				SECTION B — $(5 \times 7 = 35 \text{ marks})$		
	(a) updati	ng (b)	query				
	(c) inserti	on (d)	views			Answer ALL questions.	
-	A malastinual	3-4-1		11.	(a)	Explain the advantages of a DBMS.	
5.		A relational database consists of a					
	(a) DATA	(b)	relation			Or	
	(c) DML	(d)	EDML		(p)	Describe the features of ER model.	
6.	SQL offers functions.		– built-in aggregate	12.	(a)	What are the enforcing integrity constraints?	
	(a) 4	(b)	5 .			Or	
	(c) 6	(d)	7		(b)	Explain the destroying/altering tables and views.	
7.	SQL also provides a data type called ———.		19	(-)	Emplain the Masted answire		
	(a) small i	nt (b)	interval	10.	13. (a)	Explain the Nested queries.	
	(c) numer	ic (d)	varchar			Or	
8.	A transformation of sort is called a ————.			(b)	Describe the Triggers and Active databases.		
	(a) INTEC	GER (b)	TYPE COERCION	14.	(a)	What are the other kinds of dependencies in	
	(c) DDL	(d)	DML			schema?	
9.	9. — was introduced as the Query language.				Or		
				(b)	Explain the schema refinement in database		
	(a) DDL	(b)	QUEL			design.	
	(c) DML	(d)	Tuple	15.	(a)	Describe the performance of locking.	
10.	A weaker normal form called ————.				Or		
	(a) 2NF	(b)	3NF		(b)	Explain the concurrent execution of	
	(c) 4NF	(d)	1NF			transactions.	
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## SECTION C $-(3 \times 10 = 30 \text{ marks})$

## Answer any THREE questions.

- 16. Explain the database design in detail.
- 17. Describe the Relational Algebra and Calculus.
- 18. Explain the SQL in detail.
- 19. Explain the Normal forms in detail.
- 20. Discuss about the security and authorization in detail.