4553/SCS8C51/ SCS9C51

NOVEMBER 2013

DATABASE MANAGEMENT SYSTEM

	(For those who join	ned in J	July 2008 and after)
Tim	e: Three hours		Maximum: 75 marks
	SECTION A -	— (10 ×	1 = 10 marks)
	Answer	ALL qu	uestions.
	Choose the correct	answe	r
1.	A description of da	ata in t	terms of a data model is
	(a) record	(b)	file
	(c) schema	(d)	DBMS
2.	A DBMS enables query data through	College Harris .	to create, modify and
	(a) DCL	(b)	DML
	(c) DDL	(d)	DQL
3.		the	tement that a certain filed of a relation is a le.
	(a) primary key	(b)	key constraint
	(c) candidate key	(d)	domain constraint

The ———— operator allows us to extract columns form a relation							
(a)	selection	(b)	extract .				
(c)	domain	(d)	project				
A –	de	scribes a	actions to be taken when				
certain situations arise							
(a)	trigger	(b)	pointer				
(c)	function	(d)	package				
is a set comparison operator							
(a)	IN	(b)	ON				
(c)	ALL	(d)	UNION				
A relations is in ———————————————————————————————							
(a)	first	(b)	second				
(c)	third	(d)	fourth				
is a tool that allows us to eliminate redundancy							
(a) relational algebra							
(b)	(b) concurrency						
(c)	decomposition	1					
(d) conceptual schema							
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9.	A asso	ciated with a	is a sr	nall bookk e object	ceeping	object
		lock	(b)	commit		
	(c)	abort	(d)	thread		
10.	The	ilegies to base	tables a	mmand and views	gives	users
	(a)	SELECT	(b)	ROLLBA	CK	
	(c)	COMMIT	(d)	GRANT		
		SECTION B	— (5 ×	7 = 35 mar	ks)	
A	nswe	er ALL questio	ns. Cho	osing eithe	er (a) or	(b).
11.	(a)	What are the them briefly.	advanta	ages of a D	BMS? D	iscuss
			Or			
	(b)	Discuss bri		on relat	ionship	and
12.	(a)	Discuss abou examples.	t query	ing relatio	nal dat	a with
			Or			
	(b)	What are set examples.	operat	ions? Expl	ain ther	n with
13.	(a)	Discuss in d SQL with exa	letail, Amples.	Aggregate	operati	ons in
			Or			
	(b)	Write a shor databases.	t notes	on trigge	ers and	active
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14. (a) Discuss about properties of decompositions with examples.

Or

- (b) What is third normal form? Explain with example.
- 15. (a) Discuss about the ACID properties.

Or

(b) Write short notes on mandatory access control.

SECTION C — $(3 \times 10 = 30 \text{ marks})$

Answer any THREE questions.

- 16. Describe in detail, structure of a DBMS.
- 17. Explain about tuple relational calculus with examples.
- 18. Discuss in detail, complex integrity constraints in SQL.
- 19. Explain about schema refinement in database design.
- 20. Describe about security for internet applications.