Printed	l Dogo	1 of 2				•	Sub	Code	e: R(CS50
Paper	Űr	110501	Roll N	0.						
raper	1 a : {	110301	IQH IV	·						
			B.TE	СН.			-			
) THEORY EX							
			BASE MANA	GEMENT:	SYSTEM				~.	
Time:				ina data th	an ahaaa	_	otal N	1arks	: 70	,
Note:	Auen	npt all Sections. If t	require any miss	ang data; the	en choose	Sultabl	у.	-		
			SECTI	ION A						
1.	Attempt all questions in brief. $2 \times 7 =$									
	a.	What is Relation	•		_					
	Ь.	Explain normaliz			?					
	c.	What do you mea					.*			
	d.	Define Super key			ey & fore	ign key				
	e.	What is Strong &	*							
	f.	What do you mea	•	erializable S	chedule?	•				
	g.	Define Concurre	ncy Control.							
			SECT	ION B			1	•		
2.	Atten	npt any three of the	_					7 x 3	= 21	i
	a.	Explain data inde	-							
	b.	Describe mappin	•	/ 3	5	\sim				
	с.	Define Key. Exp								
	d.	Explain the phan		ı. Discuss a	Time Sta	mp Prot	ocol th	nat av	oids	3 3 n
		the phantom phe							ý	Ŋ.
	e.	What are Distrib	· ·		ige and di	isadvant	age of	data		, 10°
		Replication And	data Fragmenta	tion.) *				. "	
			SECT	ION C				5		
3.	Atten	npt any <i>one</i> part of			-		8 1	7 x 1	= 7	
	(a)	Define Join. Exp	lain different ty	pes of join.		.7	A Maria			
	(b)	Discuss the follow	wing terms (i) I	DL Comma	and (ii) D	ML cor	nmand	1		
		Jode			À	Com.				
4.		npt any onepart of			* 6 h			7 x 1	= 7	
	(a)	What is suple rela			M. Salling					
	(p)	Describe the following	owing terms : (1) Multivalue	ed depend	lency (1	i) Trig	ger		
5.	Atton	npt any <i>one</i> part of	the following:	\$ m	, agusto The			7 x 1	- 7	
5.	(a)	What do you und	•	D properties	s of trans:	action'9	Evnla		_	ile
	(b)	Discuss about de		7 % 7.5		etion.	LAPIG	111 111 1	Jeta	113.
	(0)	Discuss about di	badioek prevent	he concines	1-					
6.	Atten	npt any <i>one</i> part of	the following:	Č.				7 x 1	= 7	
	(a)	Explain Concurre	ency Control. W	Thy it is need	ded in dat	tabase s	ystem'	?		
	(b)	Give the following student(id, name		relational a	ilgebra us	sing the	relatio	nal so	chen	na:
		enrolled(id, cod								
		subject/code les								

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Who teaches at least two different subjects?

Which subjects is Hector taking?

Who teaches cs1500 or cs3020?

Who teaches cs1500?

What are the names of students enrolled in cs3020?

What are the names of students in cs1500 or cs307?

What are the names of students in both cs1500 and cs1200?

i). ii).

iii).

iv). v).

vi). vii).

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Paper Id:	110501	Roll No:										

7. Attempt any one part of the following:

 $7 \times 1 = 7$

- (a) Explain Directory System in detail.
- (b) Consider the following relational DATABASE. Give an expression in SQL for each following queries Underline records are Primary Key

Employee(person name, street, city)

Works(person name, Company name, salary)

Company (Company name, city)

Manages(person name, manager name)

- i). Finds the names of all employees who works for the ABC bank
- ii). Finds the name of all employees who live in the same city and on the same street as do their managers
- iii). Find the name street address and cities of residence of all employees who work for ABC bank and earn more than 7,000 per annum
- iv). Find the name of all employee who earn more than every employee of XYZ
- v). Give all Employees of corporation ABC a 7% salary raise.
- vi). Delete all tuples in the works relation for employees of ABC
- vii). Find the name of all employees in this DATABASE who live in the same city as the company for which they work.

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