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Code	No: 135CA JAWAHARLAL NEHRU TE(CHNOLOCICA	LUNIVERSITY	HYDERABAD)	
	JAWAHARLAL NEHRU TEO B. Tech III Year I Semeste	HNULUGICA Examinations	November/Dece	mber - 2018		
	B. Tech III Year I Semeste	MANAGEME	VT SVSTEMS			
	DATABASE (Common to CE, EE			NT)		
		E, ME, ECE, EH	A C	∧ Max. Marl	us: //5	$-\Delta$
_	3/hours		$\triangle A = A$	A = A = A = A = A = A = A = A = A = A =		/\
<u> </u>	AUJ AUJ			/ \\ \\ \~	A Small	,
Note:	This question paper contains to	vo parts A and B.	Angwar all quest	ions in Part A. I	Part B	
•	This question paper contains to Part A is compulsory which c	arries 23 marks.	n from each unit	Fach question (arries	
	Part A is compulsory which c consists of 5 Units. Answer an	y one full questic	II HOIH Each unit.	Daon question		
	10 marks and may have a, b, c	as sub questions.				
				the contraction	A 2000	Λ
A A		PART A	AG	\triangle	larks)	Δ
$ \wedge$ \wedge $ $	Δ (- Δ (-		-			/ `
	A Comment of the Action of				[2]	
1.a)	Define the terms: Relational D	atabases, Tables.	•		[3]	
b)	Write down the applications o	f DBMS.			[2]	
c)	Define Trigger and give an ex	ampie.			[3]	
d)	Write down the various aggreg	gate operators of	SQL.		[5]	
e)	Mention the properties of deco	omposition	A	A /	[2]	\wedge
A 7 6	Define BCNF. Write down its	basic properties.				/\
	Define multiple granularity.				[2]	/
h)	What do you mean by 2PL?				[3]	
	Differentiate Extendible vs L	inear Hashing.			[2]	
i)	What are the advantages and of	disadvantages of	B+ trees?		[3]	
j)	What are the day and get	_				
		PART - B		A	AN AME	Λ
A Promise		$A \nearrow $		\triangle (50)	Marks)	$-\Delta$
$\triangle A = A = A = A$	Δ (\neg Δ (\neg	<u> </u>				
	Explain the Database system	structure.	, , , , , , , , , , , , , , , , , , , ,		c m . m3	
2.a)	Explain the Battages system Explain various DDL and DN	11, commands.			[5+5]	
b)					.~	
. 2.3	Define ER model and explain	the following k	inds of constraint	s that can be spec	cified in	
(3.a)	the ED diagram and give	an example of	cacii. 1) key co	istraine) I	1	
,	me EK diagram, and give	A 200	A / >	\wedge	A-/	$ \wedge$
$ \wedge$ \wedge \wedge	Viewto destroy and after table	es in a DBMS?	<u> </u>	$ \wedge$ \setminus 1	[6#4]	<i></i>
	constraint. How to destroy and alter table	7 //4		A Someth	y y 10000 1	
, , , , , , , , , , , , , , , , , , , ,	Explain about the following:					
4.	Domain relational calculus	S.,				
	b) Specifying foreign key co	nstraints in SOL	with an example.		[5+5]	
		OK				
-	Consider the following relations (sid, sname, rating, a Boats (bid, bname, color)	ons	A service.	A A	A /**	Λ
5.	Consider the following relation	ge)	$A \cap A \cap A$		<u> </u>	
<u> </u>	Satiors (sid, snaine, lating, a	が / / / ブ			/ ///	
	/Boats (bid, bname, color)	y v same s	•			
	Reserves (sid, bid, day) Write the statements in Rela	tional Algebra R	elational Calculu	s, Domain Rela	tional	
	Write the statements in Rela	llowing question	S.			
	Calculus and SQL for the fo	nowing question	ed a Red boat.			
	a) Find the names of sailors	TILL HOUSE TECHTIC	PO AL ICANI UNIO DO	at.		
•	b) Find the names of sailors	WHO have reserve	ed a Red and a Gr	een boat.		
	b) Find the names of sailors c) Find the names of sailors d) Find the names of sailors	WHO have reserv	ed a Red or a Wh	ite boat.		/
-/ -	d) Find the names of sailors	wno nave reserv	red all hoats		[10]	•
A comment	a) Find the names of sailors	wno nave reserv	cu an ocais.			

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40	6.a) b) 7.	said to be lo necessary and Explain 3NF	ssless-join decords sufficient conditions with examples.	mposition? Why tion to test wheth OR	is this property er a decompositi	lation schemas X / so important? on is lossless-join fifth normal form	Give a n	A
AC	8.a) b) 9.	system. Explain about	Concurrent exec	cution of transact	ions	operations in re	[5/4-5]	A
AC	10. 11.a) b)	them. Discuss insert		OPERATIONS ON A		itable examples	£101	Д
AC	<u> </u>	AG	AG	ooOoo _	AG	AG	AG	A
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