## Hall Ticket Number:

## II/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION

July, 2021						(1)				Common to CSE & IT		
Fou	rth S	Semester	4		(	Database N			e Manageme	Management Systems		
		ree Hours			V 91 70	Frank.	nation.	Land Market				
Answer Question No. 1 Compulsorily.  Answer ANY ONE question from each Unit.						out in a line at the property of the land				(10X1 = 10 Marks) (4X10=40 Marks)		
1.	a)	Define DBMS.				the Charge		2-24	are Arrana	CO1		
20	b)	What is data indep	pendence?	Sall Wa	1.21		with.			COI		
	c)	What is conceptua	al data mod	del?	1.	4(3)				CO1		
	d)	Define key.		/	alo nex	54 5 M	3 10 45	lag o and	ste out o propri	CO <sub>2</sub>		
	e)	What are data ma	nipulation	Languag	ge Com	mands?	1 1 1 1	Page 1	Leading to The	CO2		
- 1	f)	Why the concurre								CO <sub>4</sub>		
	g)	What is Functions	al Depende	ency?						CO3		
	h)	Differentiate bety	veen B-tree	and B+	-tree		193			CO3		
	i)	What is meant by	schedule?							CO4		
	j)	Define Serializab	ility							CO4		
	•		•		Ţ	Jnit - I						
2/	(a)	Outline the adv	antages o	f Datab	ase m	anagemen	it syst	em appro	ach over the	CO1		
	•	traditional file pro						•	4		5M	
	b)	Discuss the chara			S.					COI	5M	
					(OI	<b>R</b> )						
3.	a)	Write brief notes	on the foll	owing E			ts:			CO <sub>1</sub>		
	, · .	a. Attrib		1								
		the state of the s	ionship typ	e, Relati	onship	set.				A	1,20	
			tural Const				- y-					
		Also show the sy	mbols and	notation	is used.						5M	
	b)	Write in detail about various types of relational data model constraints							TEL TELES	COI	5M	
	-,			•		Jnit - II						
4.	a)	Explain Aggrega	te function	s in SQI	with s	suitable ex	amples	S.		CO2	5M	
	b)	Consider the foll	owing data	abase scl	hema. \	Write appr	opriate	SQL DDI	L statements to	CO <sub>2</sub>		
	define the database along with suitable integrity constraints. Also						, Write DML					
		statements to ins										
,		Employee								100		
		Emp_ID	Name	Addı	ress	Salary	I	Dept_ID				
		ZP				•		. –				
		Department	94				3					
		Dept_ID		Dept_1	Name		Loc_	ID				
		Location										
		Loc_ID	Cit	v	S	tate	Co	ountry				
		200_10									5M	
		(OR)										
5.	a)	Discuss the Five	clauses of	SQL se						CO2	5M	
٠.	b)	Illustrate the bas	ic set of re	lational	algebra	operators	s			CO2	. 5M	

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		and the state of t		
6		What is normalization? Explain different types of normal forms from first normal	CO3	10M
		form to BCNF with suitable example.		110
		(OR)		
7.	a)	Explain in detail about single level ordered index.	CO3	5M
	b)	Define Fully functional dependency. Explain how to find it with an example	CO3	5M
		Unit - IV	CO3	SIVI
8,	/a)	Discuss the Two-Phase lock-based protocols	CO4	ENE
	b)	Explain Characterizing schedule based on Recoverability.		5M
	. , )		CO4	5M
2	a)	Discuss Time Stemm based (OR)		
•	-	Discuss Time Stamp based protocols with examples	CO4	5M
	0)	Define Transaction. Explain Desirable properties of Transactions.		
		The state of the s	CO4	5M