Total No. of Questions: 8]				6	SEAT No.:						
PA-1486)	[Total	No. of Pages : 3					
				[5926] 105	,						
T.E. (Electronics / E & TC)											
DATABASE MANAGEMENT											
(2019 Pattern) (Semester - I) (304183)											
Time	: 21/2	Hour	s]	~		[1	Max. Marks : 70				
	Instructions to the candidates:										
				3 or Q.4, Q.5 or Q.6, ndicate full marks.	, and Q.7 <i>a</i>	or Q.8.					
		_	ve suitable data,								
		2	Y &			200					
01)	۵)	Con	aid Wha fallo	vyju o dotohogo.							
<i>Q1</i>)	a)		, 0	wing database:							
				Name, motrine_no); Address	s) 500					
		OY		de, Sub_name)	, S	9					
	1	\sim		Sub_code, marks	J. Wo		[7]				
	•		0 1	ueries in SQL.		L D . 11	[6]				
		i)	•	ks of each student							
	1. \	ii)		iny students have fa							
	b)		-	or following SOL c	command	S.	[5]				
		i) 	Create Table	W VO							
		ii) 	Alter Table	0'36							
		iii)	Drop Table	6.							
		iv)	DELETE								
		v)	UPDATE				8				
	c)			terms with example	es.		[6]				
		i)	Procedure >			00,	\$				
		ii)	Function	OD		2 3	,				
(2)	. \	XX 7° 41	. 4 11 61.	OR	.1. DI						
~	a)		-	lock diagram, desc		, , , , , , , , , , , , , , , , , , ,					
	b)			rent types of joins	in SQL71	explain any	•				
	c)		nple. lain the follow	ing operations with	cuitable:	b	[6]				
	c)		Set operation	ring operations with	Surtable	querres.	[6]				
		i)	-								
		ii)	Aggregate fu	nctions (any two)	On.V						

Q 3)	a)	Explain commit and Roll back operations of transaction. [6	[[
	b)	Explain how beadlock occurs? Which are the actions required for the deadlock recovery process? [6					
	c)	Define the following terms.					
		i) Concurrency					
		ii) Timestamp					
		iii) Timestamp ordering					
		iv) Schedule					
		v) Transaction					
		OR 9					
Q4)	a)	What are ACID properties of a transaction? [6					
	b)	Identify the following schedule is view serializable or not. Justify your answer. [5]					
		answer. [5	']				
	0	$\begin{bmatrix} T_1 & T_2 & T_3 \\ P(X) & \end{bmatrix}$					
		answer.					
		W(X)					
		W(Z)					
		W(Y)	0				
		W(X)					
		W(X)	-				
	c)	Explain the transaction states with state diagram. [6	,]				
05)	۵)	Evaloin aliant advan analitaatum with quitable datable analitation [6]	1				
<i>Q5</i>)	,	Explain client server architecture with suitable database application. [6	•				
	b)	Draw two tier architecture and describe its advantages. [6	_				
	c)	Draw and explain memony structure of instance in oracle architecture.[6)]				
		OR O					
Q6)	a)	Describe speed up attribute in parallel database architecture. [6]					
	b)	List the parallel database architectures and explain shaved disarchitecture.					
	c)	Explain the intra query parallelism query evaluation technique. [6]	6]				

<i>Q7</i>)	a)	List and explain advantages and disadvantages of distributed database	es.[6]				
	b)	Compare homogeneous and heterogeneous distributed database.	[6]				
	c)	Draw and explain client-server architecutre for DDBMS.	[6]				
		⊗R					
Q8)	a)	Write the types of data fragmentation and explain horizontal fragmenta with one example.					
	b)	Explain the distributed database system failure modes (any two).	[6]				
	c)	Explain two phase commit protocol in distributed database.	[6]				
		Explain two phase commit protocol in distributed database.					
[59	26]-	3					