Total No. of Questions : 5]				200	SEAT No.:	
P-3346					[Total	No. of Pages : 5
			[60	027]-24		
			M.C.A.	(V) -	ement)	
			IT 24 : AD			
			(2020 Patter	n) (Semes	ter - II)	
Time	. 21/2	Нои		, ,	·	Max. Marks : 50
			the candidates :		[17	iux. Muiks . 30
	1)		questions are compulsory.		2)
	<i>2</i>)	Figu	res to the right indicate fu	ıll marks.		
			0.			
Q 1)		X	e correct option or fill	l in the blan	iks of the follow	
	(eacl	h%2 r	nark)		\$	$[20 \times \frac{1}{2} = 10]$
	i)	If in	redundant file common	fields are not	matching then it r	esult in
		a)	Inconsistency		Duplication	
		c)	Data Isolation	(d)	Data integrity pr	roblem
	ii)	Abi	lity to change the interr	schema v	vithout affecting	the conceptual
		sche	ema to achieve	data Inde	pendence.	
		a)	Logical	b)	Physical	
		c)	Analytical	d)	Conceptual	
	iii)	Wha	at is the aim of NoSQL	·	3	
		a)	Not suitable for storing	g structural d	lata 20 100	<i>,</i>
		b)	Allow storing non-stru	ectural data	(2)	
c) New data format to store large datasetd) An alternative to SQL databox to store textual data						
				S. S	o [*]	P.T.O.

1V)	iv) Normalization is a process of restructuring a relation to				
	a)	Minimize duplication of data	in dat	tabase	
	b)	Maximize duplication of data	ı in da	tabase	
	c)	Make it of uniform size			
	d)	Allow addition of data			
v)	Whe	en a relation is in 2NF and the	re is _	it is in 3NF	
	a)	Transition Dependency			
	b)	No Transition Dependency		30	
	c)	Relational Dependency			
	d)	No Relational Dependency			
vi)	Asc	chedule is is it is con	nflict	equivalent to a serial schedule	
	a)	Conflict serraziable	b)	Conflicting	
	c)	Non serraziable	3	None of the mentioned	
vii)	Whi	ich of the following are simple	est No	oSQL databases	
	a)	Key value	b)	Wide column	
	c)	Document	d)	All of the mention	
viii)	The	O = *	ell as	the writes the data item with a	
		lock.			
	a)	Shared	b)	Exclusive	
	c)	Read	d)	Write	
ix)	NoSQL database are is used mainly for handling large volume of data.				
	a)	 Unstructured	b)<	Structured	
	c)	Semi Structured	d)	All of the above	
	C)	Senii Structured	u)	This of the above	
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x)	Which of the following is not NoSQL database?					
	a)	Cassandra	b)	Mongi DB		
	c)	SQL server	d)	None of the above		
xi)	The	ance is				
	a)	Shared disk Architecture				
	b)	Shared Nothing Architecture				
	c)	Shared Memory Architecture				
	d)	None of the above				
xii)	The	core principle of NoSQL is				
	a)	High availability				
	b) (Low availability		San		
	c)/×	Both high and Low availability				
6	d)	None of above				
xiii)	The	method of synchronizing conc	urren	t task is		
	a)	Synchronization	b	Locking		
	c)	Speed up	d)	None		
xiv)	iv) 2 phase Locking which includes growing phase and					
	a)	Shrinking phase	b)	Release phase		
	c)	Commit phase	d)	Aquire phase		
xv)	xv) A sql query with location transparency needs of specify					
	a)	Fragment S	b)	Location		
	c)	Loctal formats	d)	All of the above		
xvi)	xvi) Roll back of transaction is normally used to					
	a)	recover from Transaction failu	ire			
	b)	update the transaction	5	Z, 30,		
	c)	retrieve old records				
	d)	repeat a transaction	0			
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	xvii) In log based recovery, the log in sequence of						
		a)	filter		b)	records	
		c)	block		d)	numbers	
	xviii	i)Whi	ch of the following i	n not a rec	cover	y Technique	
		a)	Deferred updates		b)	Immediate updates	
		c)	Two phase commit		d)	Recovery Management	
xix) In cryptograph, what is cipher							
a) Algorithm for performing encryption & decryption						on & decryption	
	b) Encrypted manage						
c) Both (a) and (b)							
d) Decrypted Manage							
	xx)	ASC	hedule in which each	transactio	on in E	Execution automatically is ca	lled
	6	×a. —			1.		
		a)	Non-serial schedule	2	7b) ^	Serial schedule	
		c)	Parallel schedule	20	()	Non parallel schedule	
(2)	Descri	DD	D and Dagian name	liza delatal	hogo á	Jacian	
Q^{2}			D and Design norma	90		_	
			/	W		yee, department and project. gender, date of birth, age,	. 🔾
		_		Y	•	y work on several projects wh	U
	are not necessary controlled by the same department. A particular employed manages the department. Each department has unique name, unique numb						oyee
	and several locations. The department controls no. of projects each of which has a unique name and number. We want to keep track of the dependents of each employee for insurance purpose. We keep each dependent first name						
	sex,	birth	date and relationship	of emplo	yee.		[10]
				OR	5		
	Defi	ne tra	ansaction with exam	ples. Expl	ain d	ifferent states of transaction	ıs in
	deta	il witl	n diagram.		9	,	[10]
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