	¥					
b.	Draw a ER diagram for entire university governance, including all the major streams of the university, from academics to management. Kindly concentrate on creating relations between one another, without affecting the data integrity.	10	3	2	3.4.1	
28. a.	How user query is executed in the query processing engine? Give a detail on the operations involved with neat sketch.	10	4	3	3.4.2	
	(OR)					
b.i.	Write an example for using AFTER UPDATE TRIGGER using any employee relation.	5	4	3	4.1.1	
ii.	Explain with example - Commit	5	4	3	4.1.3	
1	<ul><li>Roll back</li><li>Save point</li></ul>				4	
29. a.	Define functional dependency with respect to normal forms. How 2NF and 3NF can be resolved? Give an example scenario for the above situation, using 'STUDENT' relation.  Note: column names can be generated with respect to student relation.	10	5	4	4.3.1	
	(OD)					
b.i.	Give an example table structure for multi-valued dependency and define with required explanations.	5	5	4	4.3.4	
ii.	Analyze the syntax for writing 'cursors' and list any two real time examples of cursors.	5	5	4	4.3.4	
30. a.i.	Correlate system recovery and serializability, analyze the effect of cascading rollbacks.	5	5	5	5.1.2	
ii.	How two phase commit protocol works in transaction management systems?	5	5	6	5.3.1	
	(OR)					
b.	Draw an example scenario for dead lock. (Using transaction states (or) units). How dead lock prevention, detection and recovery works on different situations?	10	5	6	6.2.1	
				2		
	* * * *					
	* * * * *					

Reg. No.								
Keg. No.								

## B.Tech. DEGREE EXAMINATION, JUNE 2022

Sixth Semester

## 18CSC303J – DATABASE MANAGEMENT SYSTEMS

(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

to hall invigilator at the end of 40th minute.

Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over

(11)	)	Part - B should be answered in answer b	ookle	t.				
Time	e: 2	/2 Hours			Max	. Ma	arks:	75
	Marks	BL	СО	PO				
	1.	Answer ALL Q Database is a	Zucsi	ions	1	1	1	1.1.1
		(A) Collection of inter related data (C) Collection of binary data		Collection of raw data Collection of unstructured data				
	2.	Arrange in the correct order			1	1	1	1.1.1
14		(A) View level, physical level, logical level	(B)	Logical level, view level, physical level				
		(C) Physical level, view level, logical level	(D)					
	2							
	3.	Create and insert are	(D)	Diff. 1567	1	2	I	1.1.1
		<ul><li>(A) DDL and DML respectively</li><li>(C) DML and DDL respectively</li></ul>		DML and DCL respectively DDL and TCL respectively				
	4.	Drop table, table name is a			1	2	1	1.1.1
		(A) DDL command	(B)	DCL command				
		(C) TCL command -	\ /	DML command				
	5.	DDL Datas are automatically	with	out .	1	2	1	1.1.1
		(A) Committed, manual commit						
		(C) Recovered, manual recovery		Executed, manual execution				
	6.	ER is defined as			1	1	2	2.1.2
		(A) Entity relationship	(B)	Enterprise relationship				
		(C) Enterprise relation	, ,	Enterprise recovery				
	7.	Write the correct function for			1	1	2	2.2.2
		select round (sysdate, 'year') fro	m du	al;				
		(A) Round (d, format)	(B)	Round (d, 'format')				
		(C) Round (SD, YEAR)	(D)	Round ('DD-MM-YY', 'YEAR')				
	8.	Converts the string in a given format in	in to	oracle data format	1	2	2	2.2.3
		(A) TO_DATE (Str, 'DATE')		TO_DATE (Str, 'format')			30	
		(C) TO_Month (Str, 'Str')		TO_DATE (DATE, Str)				

Note:

(i)

					0	2.2.2		10		11 · · · DOME 'C'. · · 12 III 1	ic and determinant is a least	**	1	2	4	4.3.4
9	Power (m, n)		1	2	2	2.2.3		19.		ble is in BCNF if it is in 3NF and	if every determinant is a ke (B) Normal	y -				
		m power n							` '	- 1	(D) Both normal and candidate					
	(C) m×n power (D)	m power m							(0)	Candidate	(D) Both horman and canalisms					
10	Column data type references table (column)	) is an example syntax of	1	2	2	2.2.3		20.	Choo	ose the correct symbol for the rela	ational algebra operator 'SELECT'		1	2	4	4.3.4
10	(A) Primary key (B)	Foreign key							(A)	π	(B) U					
		Super key							(C)	×	(D) σ					
			,	3	2	211		21	G 11		- in all lacinal remit of examinations	allad	1	2	5	5.2.1
11	. How many primary keys are possible in a ta		1	3	3	3.1.1.		21.	Coll	ections of operations that form a	a single logical unit of work are c	allou				
	(A) Any number (B)								(A)	Views	(B) Networks					
	(C) 5    (D)	1								Units	(D) Transactions					
12	. Which is the wrong one		1	3	3	3.1.2			(-)					_	_	
12	(A) Select * from employee where (B)	Select max (salary) from						22.	The	'all of none' is referred as			1	2	5	5.2.2
		employees;							. ,	Isolation	(B) Durability					
		Select min (salary) from							(C)	Atomicity	(D) Reliability	-				
	where salary > avg (salary);	employees;						22	117h:	ich of the following system is resp	noncible for ensuring durability?		1	2	5	5.3.1
			1	3	3	3.1.2		25.		Recovery system	(B) Atomic system					
13	. Choose the correct one	Select salary from employees								Concurrency control system	(D) Complier system					
	(A) Select salary from employees (B) where salary > avg (salary);	(salary>10000);							(-)							
	(C) Select salary from employees (D)	Select salary = avg (salary) from						24.	A tr	ansaction that has not been compl			1	2	5	5.1.1
		employees);								Compensating transaction	(B) Aborted transaction	•				
	(salary) from employees);								(C)	Active transaction	(D) Partially committed transacti	lon				
1	. To apply set operations in 'Table A' and 'T	Гable В'	1	3	3	3.4.1		25	The	execution sequence in concurren	acy control are termed as		1	2	5	5.1.2
1	(A) Different column names can be (B)	Common column names alone be						23.		Serials	(B) Schedules					
	used in table A and B	used in table A and B							(C)	Organizations	(D) Time tables					
	(C) Common column names with (D)	Different column names with							. ,							
	matching data types alone be	different data types can be used									70.75		Marks	RI.	CO	PO
	used in table A and B	4 9								PART – B (5 × 10	•		7,441,115	22		
1	5. A DDL command after any number of DM	IL command	1	3	3	3.4.1	861			Answer ALL (	Questions					
		No affect with DML commands					2.	6. a.i.	Diff	ferentiate between DBMS and	file processing system. List any	two	5	4	1	1.3.1
	(C) No effect with DDL command (D)	alone					is:	or will		rantages with DBMS.						
		aunic											-	4	1	4.3.3
1	6. Eliminating partial dependency is equal to		1	3	4	4.1.1		ii.	Dra	w the DBMS system architecture	e with its all the components.		3	4	1	4.5.5
	(A) 2NF   (B)	1NF								(OR)						
	(C) Zero (D)	None of the above						h	W/h	, ,	cardinalities? Explain all the types	s with	10	3	1	3.1.2
			1	1	4	4.1.2		17.		torial representations.	ouramantios. Employer and and appropriate	.,,				
1	7. Normalization is the process of	Re-structuring the tables							•	-						
	(A) Eliminating (or) avoiding data (B) redundancy	10-su uotuming mo motos						27. a.			Aicrosoft campus club (MCC) conn	rected	10	3	2	3.3.1
	(C) Works with DBMS program (D)	Works with transaction level								an ABC college	160 11					
	level									An ABC college has decided to	on the type. Quiz club, creater club	)				
	U Danational domandanavia a relationation h	otween	1	1.	4	4.2.2				A student can join in any one of		,				
1	<ol> <li>Functional dependency is a relationship be</li> <li>(A) Entities</li> <li>(B)</li> </ol>									Each MC club has a faculty adv						
	(-)									Each student can be identified by						
	( )								Inc	_	nd model the MC club appropriately	<b>y</b> .				
										(OR)	)					
													1.002614	0000	202 T	