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	10	3	2	3.4.1	Reg. No.					
	data integrity.					B.Tech. DEGREE EXAMINATION, JUNE 2022					
28. a.	How user query is executed in the query processing engine? Give a detail on	10	4	3	3,4,2	Sixth Semester					
	the operations involved with neat sketch.					18CSC303J - DATABASE MANAGEMENT SYSTEMS					
	ADD:					(For the candidates admitted from the academic year 2018-2019 to 2019-2020)					
hi	(OR) Write an example for using AFTER UPDATE TRIGGER using any		,	-	411	Note:					
U.L.	employee relation.	*			4.1.1	 (i) Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should to hall invigilator at the end of 40th minute. (ii) Part - B should be answered in answer booklet. 	ould be handed ove				
ii.	Explain with example	5	4	3	4.1.3						
	- Commit					Time: 2½ Hours Ma	ax. M	arks	: 75		
	- Roll back							-	722		
	- Save point					PART – A (25 × 1 = 25 Marks) Answer ALL Questions	ks BL	CO	10		
29. a.	Define functional dependency with respect to normal forms. How 2NF and	10	5	4	4.3.1	Database is a	1	1	1,1,1		
	3NF can be resolved? Give an example scenario for the above situation, using 'STUDENT' relation.					(A) Collection of inter related data					
	Note: column names can be generated with respect to student relation.										
	(OP)					Arrange in the correct order	1	1	1.1.		
b.i.	(OR) Give an example table structure for multi-valued dependency and define	5	5	4	43.4	(A) View level, physical level, (B) Logical level, view level, logical level physical level					
	with required explanations.					(C) Physical level, view level, (D) View level, logical level, logical level, physical level					
ii.	Analyze the syntax for writing 'cursors' and list any two real time examples	5	5	4	4.3.4						
	of cursors,					Create and insert are	2	1	1.1.		
30. a.i.	Correlate system recovery and serializability, analyze the effect of cascading rollbacks.	5	5	5	5.1.2	(A) DDL and DML respectively (B) DML and DCL respectively (C) DML and DDL respectively (D) DDL and TCL respectively					
						Drop table, table name is a	2	1	1.1.1		
ii.	How two phase commit protocol works in transaction management systems?	5	5	6	5.3.1	(A) DDL command (B) DCL command (C) TCL command (D) DML command					
h	(OR) Draw an example scenario for dead lock. (Using transaction states (or)	10			621	DDL Datas are automatically without	2				
	units). How dead lock prevention, detection and recovery works on different		*	Ĭ.	0.4.1	DDL Datas are automatically without (A) Committed, manual commit (B) Deleted, delete			2.1.1		
	situations?					(C) Recovered, manual recovery (D) Executed, manual execution					
						6. ER is defined as	1	2	212		
	*****					(A) Entity relationship (B) Enterprise relationship					
						(C) Enterprise relation (D) Enterprise recovery					
						7. Write the correct function for	1	2	222		
						select round (sysdate, 'year') from dual;	100				
						(A) Round (d, format) (B) Round (d, 'format')					
						(C) Round (SD, YEAR) (D) Round ('DD-MM-YY', 'YEAR')					
						8 Converte the string in a given format in to oracle data format			222		
									223		
						Converts the string in a given format in to oracle data format (A) TO_DATE (Str, 'DATE')	2	2	2		

9.	Power (m, n)			1	2	2	2.2.3	19.	A table is in BCNF if it is in 3NF and if e		-1	2	4	4.3
19750	A) n power m (B) m power n							(AA) Department	Normal				
	C) m×n power (E) m power m							(C) Candidate (D)	Both normal and candidate				
	Column data type references table (colu	on) is an example syntax of		1	2	2	2.2.3	20.	Choose the correct symbol for the relation	al algebra operator 'SELECT'	1	2	4	4.3
) Foreign key						200	(A) π (B)					
) Super key							(C) × (D)					
	C) Unique key (y super ney							2450		1.25	8 0		
	How many primary keys are possible in	a table?		1	3	3	3.1.1.	21.	Collections of operations that form a sin	gle logical unit of work are called	1	2	5	3.
	A) Any number (E) 2												
) 1							300 1000 D	Networks				
									(C) Units (D)	Transactions				
	Which is the wrong one	manager transfer transfer		1	3	3	3.1.2	22	271 1 11 F - 11 - F - 1 - 1		1	2	5	5
	(A) Select * from employee where (F		from					22.	The 'all of none' is referred as	Durability				
	salary > 10000;	employees;							150 4 T. P.	Reliability				
	(C) Select * from employees (I		from						(C) Atomicity (D)	Rendomy				
	where salary > avg (salary);	employees;						23	Which of the following system is respons	ible for ensuring durability?	1	2	5	
	CI A			5	3	3	3.1.2	23.	(A) Recovery system (B)	Atomic system				
	Choose the correct one (A) Select salary from employees (I	() Select salary from em	nlovees						내용 가는 이번에 가는데 이 집에 가는데 된 집에 가지 않는데 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	Complier system				
	(A) Select salary from employees (r where salary > avg (salary);	(salary>10000);	parjecs						No. 4. Control of the Control of	7 (2000) O \$150 (1000) (1000)				
	(C) Select salary from employees (I) Select salary = avg (salar	v) from					24.	A transaction that has not been completed	successfully is called as	1	2	5	
	where salary > (select avg	employees);	,,						(A) Compensating transaction (B)	Aborted transaction				
	(salary) from employees);								(C) Active transaction (D)	Partially committed transaction				
		t trada Di		1	3	3	3.4.1				1	2		
	To apply set operations in 'Table A' and (A) Different column names can be (1)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lone be					25.	The execution sequence in concurrency c	ontrol are termed as	9			
	Different column names can be () used in table A and B	used in table A and B	none be							Schedules .				
	(C) Common column names with (s with						(C) Organizations (D)	Time tables				
	matching data types alone be	different data types can be	used											
	used in table A and B	The same of the same of							$PART - B (5 \times 10 = 50)$	Marks)	Marks	BL	co	
				1	3	3	3.4.1		Answer ALL Ques					
	A DDL command after any number of	DML command	mand-	95	÷		2000		THE WAS TAKEN QUAN	700000				
	(A) Stores the data permanently (B) No affect with DML com	mands					26. a.i	Differentiate between DBMS and file	processing system. List any two	5	4	1	
	(C) No effect with DDL command (alone DDL stateme	ant uata						advantages with DBMS.					
									1 - S		•	4	1	
	Eliminating partial dependency is equa	to		1	3	4	4.1.1	ii	Draw the DBMS system architecture with	its all the components,	70	535	0.5	
	(A) 2NF (B) 1NF							(One)					
	(C) Zero (None of the above 							(OR) What is the significance of mapping care	limiting? Explain all the types with	10	3	1	
	3			1		3	41.2	h	what is the significance of mapping care pictorial representations.	minimes. Explain an ole types with				
	Normalization is the process of					7	****		pictoriai representations.					
	(A) Eliminating (or) avoiding data (B) Re-structuring the tables						27 2	Draw an extended ER diagram for Micro	soft campus club (MCC) connected	10	3	2	
	redundancy	DV. Washa with termonation to	eve1						by an ABC college					
	(C) Works with DBMS program (D) WORKS WITH TRANSACTION IC	vei						- An ABC college has decided to setu	p a MC club				
	level								 MCC can be categorized based on the 	he type. Quiz club, creater club				
ļ.	Functional dependency is a relationship	between		1	1	4	4.2.2		- A student can join in any one of the	MC clubs				
		B) Rows							 Each MC club has a faculty advisor 	who trains the students				
		D) Tables							 Each student can be identified by us 	sing id_no				
									Include all the above requirement and me	idel the MC club appropriately.				
	\$0.5 Tax (1.00)													
									(OR)					