Seat	No.	:	20
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AJ-102

April-2024

B.C.A., Sem.-IV

CC-208: Database Management System – II

(Theory)

Time: 2	:30 Hours [Max. Marks : 7	[Max. Marks: 70		
1. Wr	ite the following:			
(i)	Explain Different SQL Constraints with example.	7		
(ii)	Title 1 1 1 1 D 1 1 C 1 C 1 C 1 C 1 C 1 C 1 C	7		
1. 7 (i)	List and explain all Special Operators with example.	7		
7 (ii)	Discuss Aggregate functions in detail with example.	7		
2. Wri	te the following:			
(i)	What is concurrency control? Explain the problem of lost updates and inconsistent retrieval.	7		
(ii)	Explain two phase locking protocol in detail.	7		
	OR			
2. (i)	Explain the difference between Binary, Shared and Exclusive locks.	7		
(ii)	What is a Transaction? Explain its properties.	7		
3. Wri	te the following:			
7 (i)	Explain the different levels of Data and Process distribution with diagram.	7		
₹(ii)	List and explain different types of Distributed Database Transparency Features.	7		
	OR			
3. (i)	What are Distributed Database and Distributed Processing? Explain using proper Diagram.	r 7		
(ii)	Explain Two-Phase Commit Protocol in distributed transaction management.	7		
4. Wri	te the following:			
(i)	List out the different types of Joins and explain any three in detail with example.	7		
(ii)	What is Subquery? Explain Where, IN and From subqueries with example.	7		
	OR			
4. → (i)	List and explain different types of Set Operators with example.	7		
4 (ii)	List SQL functions and explain Date & Time and Conversion functions in detail			
	with example.	7		
AJ-102	P.T	.O.		

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5.	Attem	pt any seven out of twelve	:	14
(ric value tha	t can be assigned to any column in any
	ta	ıble.		
	(a) Autonumber	(b)	Identity
	(c)) Sequence	(d)	Autogenerate
(ii	i) Th	e SQL command	d is used to c	lelete a Table structure.
	(a)	DROP	(b)	FINISH
	(c)	TRUNCATE	(d)	DELETE
(iii)) DD	L stands for Distributed 1	Database La	nguage. (T/F)
(iv)	Def	ine the monotonicity proj	perty of a tir	ne stamp.
(v)	Usir	ng we can rec	cover our da	tabase transaction.
	(a)	Transaction Log	(b)	Checkpoints
	(c)	Control files	(d)	Data Files
(vi)	TP s	tands for	<u>-</u> islaa	
	(a)	Transaction Provider	(b)	Transaction Processor
	(c)	Transaction Program	(d)	Transaction Point
(vii)	Tran	saction can be either con	npletely con	nmitted or completely aborted. (T/F)
(viii)		ibuted processing requirequire distributed proces		ed database, but distributed database does
(ix)		function returns curre	nt system da	ate in Oracle.
	(a)	Sysdate	(b)	System Date
	(c)	Now	(d)	Today
(x)	INTE (T/F)	RSECT operator combi	nes two or	more queries including duplicate rows
(xi)	The L	Default order in order by	clause is as	cending. (T/F)
(xii)	LIKE	operators uses	and	symbols for pattern matching.
	(a)	? and /		% and _
	(c)	* and ?	(d)	% and *