			[Time: Three Hours] [M	[arks: 80]
		N.B:	(1) Question No.1 is compulsory	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
			(2) Attempt any three of remaining five questions	Though the
			(3) Assume any suitable data if necessary and justify the same	
Q 1	a)	Explain	n Brute-Force Nested Loop Join algorithm.	
	b)	-	s dead lock, explain wait and die scheme used for deadlock prevention	~ V ~ C C C .
	c)	What is	s Temporal Database? What are its characteristics?	5
	d)	Explain	n roll-up, drill down, slice, dice operations in OLAP.	5
Q 2	a)	Explain	basic time stamp ordering protocol and compare it with 2 phase	
		locking	protocol in terms of deadlock and rollbacks.	10
	b)	Explain	Mandatory Access Control and Discretionary Access Control, also	10
		explain	explain access control list and access control entry w.r.t. the same.	
Q 3	a)	Why fra	agmentation is required in distributed data bases, Explain Vertical	
		fragmer	ntation with example, comment on completeness, reconstruction and	d
		disjoint	ness aspect of it.	10
	b)	Explain	a 2 Phase commit protocol with proper flow diagram.	10
Q 4	a)	Explain	n MOLAP, ROLAP and HOLAP Models.	10
	b)	What is	s the significance of serializability, explain conflict serializability and	
	ST.	view se	rializability with the help of example.	10
Q 5	a)	Explain	types of data extraction methods in ETL process	10
	b)	6 V 5 C 7 6	basic difference between pessimistic and optimistic concurrency comm. Explain distributed 2PL algorithm.	ontrol 10
Q 6		Write sl	hort notes on (any two)	20
		a. Rol	le Based Access Control	
		b. Que	ery Optimization	
		c. Dat	ta Warehouse Architecture	
S. A. Z.	100 S	d. Cha	allenges in ETL functions	
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