

SELECT ENO FROM ASG

AND PNO != "P2" AND DUR=12

WHERE RESP = "Analyst"

AND NOT(PNO="P2" OR DUR=12)

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Paper Code: PEC-IT601B Distributed Systems UPID: 006590

Time Allotted: 3 Hours Full Marks:70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

		Group-A (Very Short Answer Type Question)	
1. An	swer	any ten of the following:	[1 x 10 = 10]
	(1)	What is data replication?	
	(11)	What is minterm predicate?	
	(III)	Define homogeneous distributed database.	
	(IV)	What is the maximum no of functional dependencies (trivial and non-trivial) of a relation R of degr	ee n?
	(V)	Write the full form of OLAP.	
	(VI)	What is data dictionary?	
	(VII)	Provide a technique for recovery management.	
	(VIII)	Edit of a data item in a transaction is done in which mode?	
	(IX)	What are the attribute usage values?	
	(X)	What do you mean by granularity?	
	(XI)	What is the disadvantage of replication?	
	(XII)	Who is responsible for ensuring correct execution of a transaction in the presence of failures?	
		Group-B (Short Answer Type Question)	
		Answer any three of the following:	[5 x 3 = 15]
2.	Wha	at are the advantages and disadvantages of replication? What is auxiliary program?	[5]
3.	Write down the Dynamic query optimization methods with example.		
4.	Whi	ch components are necessary for building a distributed database?	[5]
5.	Expl	ain distributed cost model with example.	[5]
6.	Wha	at is DDBMS ? What are the features of DDBMS ?	[5]
		Group-C (Long Answer Type Question)	
		Answer any three of the following:	[15 x 3 = 45]
7.	Expl	ain the following in detail:	[8+4+3]
		uery optimization issues in DDBs.	
		Vorld Wide Web Architecture and Protocols.	
		Data warehousing architectures.	24,0,15,5
8.		at is flat transaction and nested transaction? cuss about dirty-read, fuzzy read and phantom.	[4+6+5]
		at is ACID in DDBMS?	
9.		rfly describe the various implementations of the process pairs concept. Comment on how process pa	airs [15]
	may	be useful in implementing a fault tolerant distributed DBMS.	
10.		te down "Basic Timestamp Ordering Scheduler (BTO-SC) Algorithm".	[8+7]
720		te down "Data Processor (DP) Algorithm" .	Co. Aug. 1
7.11.		cuss different types of search strategies. At is search space in distributed query optimization?	[6+4+5]
		plify the following query, expressed in SQL, using idempotency rules:	
	051.5		