Total No	o. of Questions	: 12]
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SEAT No.:	
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P1937

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[Total No. of Pages :2

S.Y.M.C.A. (Engineering)(Under Faculty) ADVANCED DBMS (Semester-IV) (2013 Course) (410913)

Time: 2 . Instructi 1) 2) 3)	Hours] [Max. Marks ons to the candidates: Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. Assume suitable data if necessary.	s:50		
<i>Q1)</i> a)	With suitable diagram explain the steps in query processing.	[4]		
b)	Explain and compare nested loop join and block nested loop join algorithm.	[5]		
	OR			
Q2) a)	Consider the following query,			
	"Select balance from account where balance<2500."			
	Write relational algebra expression for the above query and explain quevaluation plan.	uery [4]		
b)	With a suitable example, explain the materialization approach.	[5]		
<i>Q3)</i> a)	Differentiate between centralized and client-server systems.	[4]		
b)	Explain parallel database architectures.	[4]		
OR				
Q4) a)	Explain speed up and scaleup in parallel databases with suitable diagran	n.[4]		
a)	Explain the structure of Transaction Server process with diagram.	[4]		
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Q5)	a)	Explain Distributed DBMS Architectures.	[4]
	b)	Explain advantages and disadvantages of Distributed Databases.	[4]
		OR	
Q6)	a)	Explain database integration process with neat diagram	[4]
	b)	Explain Data and Access Control.	[4]
Q7)	a)	Explain structured types and inheritance with example in SQL.	[4]
	b)	Explain object identity and reference types with examples.	[4]
		OR	
Q8)	a)	What is persistent programming language and how it is different frembedded language?	om [4]
	b)	Explain need of complex data type?	[4]
		•	
Q9)	a)	What is XML databases? Explain XML Database types.	[4]
	b)	What is a Native XML Database? Write features of Native XML database	.[4]
		OR	
Q10)	Wı	rite short note on:	
	i)	Oracle Database and XML	
	ii)	Generating XML pages using Basic SQL	[8]
Q11)	a)	What is NoSQL? Compare relational (RDBMS) and noSQL database	.[3]
	b)	What is Graph Databases? What are the pros and cons of Graph database?[3]	
	c)	What is schema-less Databases? What are the pros and cons of scheless Databases?	ma- [3]
		OR	
Q12)	Writ	e short note on:	[9]
	a)	Single server	
	b)	Sharding	

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