Seat No.: _	
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LB-104

April-2014

4th M.Sc. (CA & IT) (Integrated)

Client Server Technologies

Tin	ne: 3	Hour	rs]	[Max. Marks : 100		
1.	Ans	wer th	ne following questions: (any 4)	20		
	(1)	Exp	lain the characteristics of client/server systems.			
	(2)	Exp	lain process per client architecture of a database server.			
	(3)	Explain the life cycle of a servlet.				
	(4)	Explain CORBA object services.				
	(5)	Wha	at is a two-phase commit protocol? Explain.			
2.	(a) Write short notes on the following: (any 4)		te short notes on the following: (any 4)	12		
		(1)	Digital Certificate			
		(2)	Lightweight Distributed Access Protocol			
		(3)	Database server			
		(4)	COM server			
		(5)	Stored procedures			
	(b)	Answer the following:				
		(1)	Explain Client/Server building blocks.			
		(2)	What is a Transaction ? What are the ACID properties of Explain.	f a transaction?		
3.	(a)	Exp	lain briefly the following terms: (any 4)	12		
		(1)	Sockets			
		(2)	Distributed objects			
		(3)	Scriplets in JSP			
		(4)	ESQL			
		(5)	Chained Transactions			
	(b)	Ans	wer the following: (any 2)	8		
		(1)	What are the limitations of a flat transaction? Explain.			
		(2)	What are the phases in the Life Cycle of a JSP Page?			
		(3)	Explain language and auto flush attributes of a page directive	e in JSP.		
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		(1)	Explain what do you mean by Session tracking? Explain any two techniques used for session tracking.	5
		(2)	Write difference between get and post method.	2
	(b)	te the programs for following:		
		(1)	Write a JSP program to display all the records in a given table in reverse order.	5
			The table has following fields:	
			Stud_RNo	
			Stud_Name	
			Percentage	
			Date_of_Birth Stud_RNO is primary key	
		(2)	Write a JSP code to enter values from Registration form in the Registration table. Check if Username Already exists. If so display the message accordingly and ask the user to choose different Username.	
			The table has following fields:	
			Username Password Email ID Date of Birth Address Gender	8
5.	(a)	a) Write the purpose of the following methods:		4
		(1)	executeQuery()	
		(2)	sendRedirect()	
		(3)	beforeFirst()	
		(3)(4)	beforeFirst() isAfterLast()	
	(b)	(4)	· ·	
	(b)	(4) Ans	isAfterLast()	4
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	(b)	(4) Ansv (1)	isAfterLast() wer the following questions: Explain any three mechanisms provided by NOS for dealing with tampering and confidentiality of intransit data: Compare the following: (any 3) (1) Forward and sendRedirect methods in JSP. (2) RPC and MOM (3) Transactional communications and Non Transactional model	4 12

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4. (a) Answer in brief: