Seat No.	:	
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## **XV-109**

## Five Years M.Sc. (CA & IT) Integrated (K.S.) 4<sup>th</sup> Year M.Sc. April-2013

## **CST** (Client Server Technologies)

Tim	ie: 3	Hours] [Max. Marks : 10	0
1.	Ans	wer the following (any <b>four</b> ):	0
	(a)	What is client/server? Explain characteristics of client/server system.	
	(b)	Differentiate between Two-Tier and Three-Tier client/server architectures.	
	(c)	Explain client/server building books.	
	(d)	Explain Base services of an Operating System.	
	(e)	Differentiate between GUI and OOUI.	
2.	Ans	wer the following (any <b>four</b> ):	0
	(a)	What security mechanism are provided by modern NOS to meet the C2 level	
		security on the network?	
	(b)	What are ACID properties of a Transaction? Explain them in detail.	
	(c)	Discuss the flat transaction problems. (any two)	
	(d)	Explain CORBA services and also explain benefits of CORBA.	
	(e)	Differentiate between RPC & MOM.	
3.	Ans	wer the following:	0
	(a)	Explain Database Server in details.	
	(b)	Explain the Public and Private key encryption technique with diagram.	
4.	Ans	wer the following:	5
	(a)	Explain JZEE Architecture in detail with diagram.	
	(b)	Explain the Anatomy of request processing using in-process and out-of-process servlet contains model.	
	(c)	Write a short note on JDBC.	
	(d)	Explain Life Cycle of Servlet.	
	(e)	Explain how JSP works in detail.	
	(f)	List and explain any two objects of JSP.	

Explain session Tracking Mechanism and any two methods of it.

(g)

- 5. Write JSP code for following (any **three**):
  - (a) Design on HTML farm where user enter student details like.
    - (1) Student ID
    - (2) Student Marks
    - (3) Student Grade
    - (4) Student First name
    - (5) Student Last name

Also write code to display details entered by user using servlet.

(b) Write a JSP code for online shopping (art for IT products). Display any random items selected by users.

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- (c) Write a JSP code that stores the following items in a session object.
  - (1) Account Number
  - (2) Transaction ID
  - (3) Transaction Date
  - (4) Debit Card Number
  - (5) User Name
- (d) Write a JSP code for Registration of a user. Registration Data should be stored in a database using data. Set object the Registration form has following fields.
  - (1) First name
  - (2) Last name
  - (3) Address
  - (4) User name
  - (5) Password
  - (6) Zip code
  - (7) City
  - (8) State
- (e) Write a JSP code which accepts user name & password from user using request object and displays users details on success. JSP page if user name and password are correct.

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