

**IV B.Tech I Semester Regular Examinations, November 2008**  
**CLIENT SERVER COMPUTING**  
**(Computer Science & Engineering)**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. Describe in detail about the benefits of client server computing over traditional method. [16]
2. (a) Differentiate Method Overloading and Overriding.  
(b) Write a Java program using AWT Menu bars and menus. [8+8]
3. Write briefly about following:
  - (a) Object Request Broker.
  - (b) Cooperating Business Objects
  - (c) Anatomy of a CORBA Business object
  - (d) CORBA Services. [4×4]
4. (a) Explain about the CORBA naming Service and CORBA objects support hierarchical Naming.  
(b) Briefly explain about the running process of Client/server program from an HTTP server. [8+8]
5. Discuss about Java Servlets .Explain the Life Cycle of servlet. [16]
6. (a) How does CORBA pass values to objects.  
(b) Explain about CORBA's objects by value. [8+8]
7. (a) Explain the bounded properties and constrained properties.  
(b) Explain the constrained property with an example scenario. [10+6]
8. (a) What are the limitations of COBRA OTMS? How EJB addresses those short comings.  
(b) List and explain functions of OTM provided to EJB'S. [8+8]

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1. (a) Describe in detail about the pitfalls of client server computing.  
(b) Briefly discuss about middleware in N-tier environment. [8+8]
2. (a) What is Synchronization? Explain how it is offered in java with an example.  
(b) Discuss various types of Constructors and Destructors in Java. [8+8]
3. (a) Discuss about the anatomy of a CORBA 2.0 ORB.  
(b) Explain how CORBA 2.0 adds interoperability of ORB Core using IIOP. [8+8]
4. (a) Explain about the applet life cycle management.  
(b) How are the java classes and interfaces generated by the IDL2 Java compiler? [8+8]
5. (a) Write short notes on Cookie.  
(b) write a servlet program for session tracking. [8+8]
6. (a) Explain about CORBA introspection capability.  
(b) Explain about reflection property of java objects. [8+8]
7. (a) Explain the versioning of a bean's state.  
(b) Explain about JAR files in detail. [8+8]
8. Explain the container/bean callback interfaces in detail. [16]

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1. (a) Discuss various client server models.  
(b) Discuss various benefits of client server computing. [16]
2. (a) Discuss the following string handling concepts.
  - i. Character Extraction functions
  - ii. Modifying a string(b) Describe various Event Listener Interfaces. [8+8]
3. (a) How can we augment the web infrastructure with CORBA/Java? Explain.  
(b) Briefly explain how Java extends support for CORBA. [8+8]
4. (a) Explain about the creation of namespace by a server application.  
(b) How can we assemble the request without any example from the ORB in dynamic invocation. [8+8]
5. Explain client/Server communication using Caffeine development process. [16]
6. Explain POA in detail including POA policies. [16]
7. (a) Explain about EventObject class and EventListener Interface  
(b) What are event adapters. [8+8]
8. Explain the container/bean callback interfaces in detail. [16]

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1. (a) Briefly discuss about the basic building blocks of the Client/Server.  
(b) Discuss about web Client /server versus traditional Client/Server. **[8+8]**
2. Discuss the following with a java program using Swings:
  - (a) Buttons
  - (b) Trees
  - (c) Tables
  - (d) Tabbed panes. **[4×4]**
3. (a) Briefly explain the anatomy of Client/Server Business Object.  
(b) How does JavaSoft plans to make CORBA as a part of the Java core. **[8+8]**
4. (a) Describe about the interaction of browser with an applet.  
(b) How are the java classes and interfaces generated by the IDL2 Java compiler? **[8+8]**
5. Discuss the HTTP servlet interface in detail. **[16]**
6. (a) Explain object Activation using POA style.  
(b) write about POA interfaces. **[8+8]**
7. (a) What are infrastructure type services to java beans.  
(b) What are differences between javabeans and applets. **[8+8]**
8. Explain EJB Client/Server scenario. **[16]**

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