

III B.Tech II Semester(R07) Regular & Supplementary Examinations, April/May 2011
MIDDLEWARE TECHNOLOGIES
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
questions carry equal marks

1. (a) What are the benefits of Client/Server environment? What are the limitations of Client/Server environment?
(b) What are the benefits of Mainframe? What are its limitations?
(c) What is the role of standards in Client/Server environment?
2. Explain the RMI's Distributed Object Model.
3. What are the components of an assembly structure? How do you organize them? Explain them.
4. Explain about System.Type class and System.Reflection.
5. How applets are changing the dynamics of Client/Server computing.
6. (a) Explain the CORBA 2.0 initialization scenario.
(b) What is CORBA trader?
7. With the help of a diagram explain JDK as a framework for JAVA Beans.
8. With the help of a diagram, explain CORBA OTM's.

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1. (a) What is Open system? What are its advantages? What are the problems in making a system open system?
(b) What are the different tasks performed by an application.
2. (a) RMI and CORBA are similar. Explain.
(b) What are the advantages of RMI.
3. How do you create assemblies in .NET.
4. How .NET Remoting can be used to access objects in another application domain.
5. (a) Applets are " just-in-time" shippable clients. Comment on it. (b) What is applet. Explain how applet works.
(c) What are the services provided by browser to applets.
6. (a) The CORBA philosophy in to keep client side simple. Comment on it.
(b) What is portable object adapter.
7. (a) Explain event delegation model for JAVA Beans.
(b) What is introspection & persistence of JAVA Beans.
8. (a) CORBA does not define a server-side component coordinator framework comment on it.
(b) Explain the four groups of vendors in the context of CORBA OTM' s.

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1. What are the different levels of Client/Server computing based on the functions (application tasks) performed by Client and Server? Explain them.
2. (a) Explain how Garbage collection in RMI works.
(b) What is Leasing in the context of Remote Objects.
3. How Cross language support is achieved using CTS and CLS. Explain with an example using .NET.
4. Explain the different .NET Remoting classes that can be used for Distributed applications.
5. Explain applet life cycle with the help of an example.
6. Explain the ORB activation and deactivation policies.
7. (a) What is the difference between design time Beans & Runtime Beans.
(b) Explain the JAVA Beans naming conventions.
8. How OTM' s provide a framework or organized environment for running serverside components.

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1. (a) How Hardware trends contributed to evolution of Client/Server computing.
(b) How Software trends contributed to evolution of Client/Server computing.
2. (a) What is the use of Objects finalize method in garbage collection.
(b) Write a brief note on JDBC Java language extension of exceptions.
3. What is shared assembly? What are its advantages? How do you create shared assemblies?
4. Explain how distributed applications can be created with .NET Remoting.
5. Explain how client and server can communicate using static method invocations.
6. Explain the server side of CORBA.
 - (a) Explain simple property naming patterns for JAVA Beans.
 - (b) Explain indexed properties naming patterns for JAVA Beans.
 - (c) Explain event naming patterns for unicast and multicast events.
8. (a) What are the activities of OTM on behalf of your components.
(b) How Enterprise JAVA Beans are related to CORBA OTM's.
