R07

Set No: 1

Code No: V3243

III B.Tech. II Semester Supplementary Examinations, November/December - 2012
MIDDLEWARE TECHNOLOGIES
(Information Technology)

Time: 3 Hours   **Max Marks: 80**

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

1   a) Define client/server computing? Write its merits?
    b) Draw the Three-Tier client/server architecture and explain.   (8+8)

2   a) What are CORBA services? Explain in detail.
    b) Draw the CORBA2.0 inter-ORB architecture and explain.   (8+8)

3   a) What is cross-language inheritance? Explain.
    b) Briefly discuss about building a shared assembly.
    c) What are C#'s encapsulation services? Explain.   (5+5+6)

4   a) What is the role of ADO.NET data providers? Explain.
    b) Briefly discuss about data access with ADO.NET.   (8+8)

5   a) Explain about your first CORBA-Enabled applet.
    b) Describe portable count client and portable count server.   (8+8)

6   a) Discuss about mapping from CORBA IDL to Java.
    b) What are CORBA constructed types?
    c) Explain about mapping CORBA pseudo-objects to Java.   (5+5+6)

7   a) Discus about Bean persistence.
    b) Explain about property editors and customizers.   (8+8)

8   Explain the following:
           a.   The container/bean callbacks
           b.   The clients view of an EJB
           c.   EJB design guidelines.
           d.   CORBA OTMs   (4+4+4+4)
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Set No: 2

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(Information Technology)

Time: 3 Hours   **Max Marks: 80**

Answer any FIVE Questions
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*****

1   Discuss in detail about how Railway reservation application works in client/server environment.   [16]

2   a) Discuss about the CORBA/Java object Web in detail.
     b) Explain in detail about the evolution of web technologies.   [8+8]

3   a) What are private assemblies and XML configuration files? Explain.
     b) Write short notes on the .NET delegate type.
     c) Discuss about events in detail.   [5+5+6]

4   a) Discuss in detail about the System.Type class.
     b) Explain about XML Web services briefly.   [8+8]

5   a) Explain how ORBlets meet applets with example.
     b) Discuss about CORBA method invocations.   [8+8]

6   a) Discuss about the CORBA2.0 Interface repository.
     b) What are general constructs of the CORBA IDL-to-Java mapping? Explain.
                                                                            [8+8]

7   a) What is the new CORBA component-model? Explain.
     b) Discuss about the Java security APIs.   [8+8]

8   Explain the following:
          a.   The container/bean callbacks
          b.   The EJB client/server development process
          c.   The container/Bean interfaces
          d.   EJB packaging   [4+4+4+4]
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Set No: 3

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Time: 3 Hours   **Max Marks: 80**

Answer any FIVE Questions
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*****

1 What do you mean centralized computing and distributed computing? Explain
   merits and demerits of both.   [16]

2 a) Write about the evolution of CORBA.
   b) What Java brings to CORBA?
   c) What are the differences between Web client/server and traditional
   client/server.   [6+5+5]

3 a) Describe various members of System Multicast Delegate.
   b) How to build a Multifile assembly? Explain.
   c) Explain about nested type definitions.   [5+5+6]

4 a) Discuss about the .NET remoting namespaces.
   b) Write about configuring objects for serialization.   [8+8]

5 a) Explain dynamic invocations of the dynamic count.
   b) Discuss about the portable count.   [8+8]

6 a) Explain about the introspective CORBA/Java object.
   b) Discuss about the structure of the CORBA IDL.
   c) Explain about the server side of CORBA.   [6+4+6]

7 a) Discuss about the Beans in JARs.
   b) Explain in detail about active properties.   [8+8]

8 Explain the following:
        a) Declarative transaction management
        b) The remote EJB interfaces.
        c) OTM
        d) Support for transactions   [4+4+4+4]

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Set No: 4

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(Information Technology)

Time: 3 Hours   **Max Marks: 80**

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

1   a) Why client/server computing? What are its advantages?
    b) Neatly draw two-tier client/server architecture and explain.   [8+8]

2   a) What is a distributed CORBA object? Explain ORB.
    b) Discuss about CORBA business objects.
    c) Write about the anatomy of a CORBA2.0 ORB.   [6+5+5]

3   a) Give an overview of .NET assemblies.
    b) Define the default public interface of a type.
    c) Discuss about Callback interfaces.   [5+5+6]

4   a) What is attribute programming? Explain.
    b) Describe data access with ADO.NET.   [8+8]

5   a) Discuss in detail about the portable count.
    b) Explain about the MultiConsole applet.   [8+8]

6   a) What are CORBA constructed types?
    b) How to map CORBA pseudo-objects to Java? Explain.
    c) Explain about metadata in brief.   [6+4+6]

7   a) Discuss in brief about the Event-Driven JavaBean.
    b) Explain about the delegation event model in a Nutshell.   [8+8]

8   Explain the following:
        a. The EJB/container protocol
        b. The EJB deployment classes
        c. Session and empty beans
        d. The clients view of an EJB   [4+4+4+4]
                            *****