



**B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014**

(Regulation 2009)

Seventh Semester

**INFORMATION TECHNOLOGY**

CSE119: Component Based Technology

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Which is not the property of a component?
  - a) Unit of independent deployment
  - b) Unit of dependent deployment
  - c) Unit of third party composition
  - d) Has no observable state
  
2. \_\_\_\_ provides the semantics for method invocation, whereas \_\_\_\_ provides the semantics for object invocation
  - a) RPC,RMI
  - b) RMI,RPC
  - c) CORBA,RMI
  - d) COM,RMI
  
3. \_\_\_\_ that do not support distributed computing in Java
  - a) EJB container
  - b) RMI over IIOP
  - c) CORBA
  - d) JDBC
  
4. \_\_\_\_\_ facilitate service discovery.
  - a) UDDI and WSDL
  - b) Requester
  - c) WSDL only
  - d) UDDI only
  
5. EJB provides a consistent framework for creating distributed \_\_\_\_\_ middleware applications.
  - a) only 1- tier
  - b) only two-tier
  - c) only three-tier
  - d) n-tier

6. Which one hosts the EJB containers?
  - a) EJB server
  - b) EJB client
  - c) EJB container
  - d) EJB Object
7. IDL is used to define
  - a) procedures
  - b) functions
  - c) Interfaces
  - d) Component
8. \_\_\_\_ provide factory functionality to create new instances
  - a) Ports
  - b) Primary key
  - c) Home interfaces
  - d) receptacles
9. Expansion of CLSID is \_\_\_\_
  - a) Class Identifier
  - b) Class sequence Identifier
  - c) Class label sequence ID
  - d) COM label sequence ID
10. OLE controls renamed as \_\_\_\_\_
  - a) COM objects
  - b) DCOM objects
  - c) ACTIVE X controls
  - d) Containers

**PART B (10 x 2 = 20 Marks)**

11. What are the two categories of middleware?
12. Specify the characteristics of object.
13. Distinguish between session bean and entity bean.
14. Specify the purpose of JNDI.
15. Distinguish between bean managed persistence and container managed persistence.
16. What are the aspects of the bean model?
17. Identify the goal of CORBA.
18. What is the responsibility of CORBA Object Adaptor?
19. How do components differ from containers?
20. Distinguish between COM and DCOM.

**PART C (5 x 14 = 70 Marks)**

21. a) (i) Elaborate the properties of component. (7)

(ii) Explain different types of interfaces with an example. (7)

**(OR)**

b) (i) Illustrate the interplay of layers and tiers in a multilayer three tier architecture. (7)

(ii) Summarize various terms help to construct component architecture. (7)

22. a) Demonstrate the use of RMI for developing distributed applications.

**(OR)**

b) Illustrate the steps for developing and deploying EJB. Give an example.

23. a) Describe EJB 3.0 Programming model with a neat diagram.

**(OR)**

b) With a neat diagram, elaborate the life cycle for session bean ejb 3.0.

24. a) Illustrate the more detailed view of CORBA and its interaction with OMG IDL.

**(OR)**

b) Present brief summaries of CORBA services.

25. a) (i) Identify the interfaces that are implemented by COM object to qualify as on OLE control. (7)

(ii) Write note on .NET assemblies. (7)

**(OR)**

b) With a neat diagram, explain OLE document container and server interfaces.

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