

Register Number:.....

B.TECH., DEGREE EXAMINATIONS MAY/JUNE 2013

Seventh Semester

INFORMATION TECHNOLOGY

CSE119: Component Based Technology

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10x1=10 Marks)

1. Visual Basic is _____ language.
(A) an object-oriented (B) an object based
(C) the procedure oriented (D) a purely object-oriented
2. In 3-tier client/server applications, the business logic lies at-----
(A) The client (B) The Database Server (C) Middle Tier (D) Firewall.
3. What is NOT true about Entity beans?
(A) Entity beans can survive a system crash (B) Entity beans are not pooled
(C) Entity beans cannot be stateless (D) Entity beans are transactional
4. What is true about `ejbCreate()` method in EJB 2.0?
(A) `ejbCreate()` is defined only in session beans not entity beans
(B) `ejbCreate()` with session beans causes session bean objects to be created
(C) `ejbCreate()` with entity beans causes entity bean objects to be created
(D) `ejbCreate()` with entity beans causes data rows in the data store to be created
5. Which of the following is not a life-cycle method for a Stateful Session Bean?
(A) Post Construction (B) Pre Destruction
(C) Post Activation (D) Pre Construction
6. From the following APIs, which API does NOT guarantee to be supported by EJB 2.0 containers?
(A) JAXP (B) JNDI (C) JXTA (D) JDBC
7. Which of the following concepts is not a part of CORBA?
(A) Polymorphism (B) Lifecycle (C) Inheritance (D) Reuse
8. Which feature is not supported by CORBA?
(A) Interoperability (B) Dynamic Garbage Collection
(C) Platform Independency (D) Multithreading

b) A company wants to transmit data over the telephone, but it is concerned that its phones may be tapped. All of its data is transmitted as four-digit integers. It has asked you to write a RMI application that will encrypt its data so that the data may be transmitted more securely. Your remote method should read a four-digit integer entered by the user in a prompt dialog and encrypt it as follows: Replace each digit by (the sum of that digit plus 7) modulus 10. Then swap the first digit with the third, and swap the second digit by digit with the fourth. Then output will display the encrypted integer in client side. Write a remote method that inputs an encrypted four-digit integer and decrypt it to form the original number. Your RMI application should include interface, implementation, server and GUI client.

23. a) Write a session bean application to concatenate 'N' strings given by the user. EJB application includes interfaces, server and client file. (Note: The user inputs the string one by one. You have to keep track of strings that concatenated already.)

(OR)

b) (i) Compare BMP entity bean with CMP entity bean (7)

(ii) Write a Message driven application to say "Hello World" message (7)

24. a) (i) Explain in detail about CORBA services (7)

(ii) Draw architecture of ORB and explain (7)

(OR)

b) Write a CORBA application to reverse the string.

25. a) Write an ActiveX control application for numeric text box and use this component in another application. Numeric text box accepts numeric values only. Use VB / VC++ language for developing the application.

(OR)

b) (i) Explain in detail about COM, interfaces and its methods (6)

(ii) Explain in detail about Dispatch interfaces (8)
