

**FACULTY OF ENGINEERING**

B.E. 4/4 (CSE) I - Semester (Main) Examination, December 2011

**Subject : Middleware Technologies  
(Elective – I)**

Time : 3 Hours

Max. Marks: 75

**Note:** Answer **all** questions of Part – A. Answer any **five** questions from Part-B.**PART – A (25 Marks)**

1. What are the similarities and differences between RMI and CORBA? (3)
2. List the key features of EJB Technology. (2)
3. What is assembly .NET framework? (3)
4. Define three types of enterprise beans. (2)
5. Give the importance of ORB in distributed applications. (3)
6. What is marshalling by value? (2)
7. What are different types of Servers? (2)
8. What are the services provided by EJB container? (3)
9. What is CORBA Naming Service? (3)
10. Explain Marshalling in . Net. (2)

**PART – B (5x10=50 Marks)**

11. EJB architecture in detail with neat sketch. (10)
12. Write the IDL Program for "Compute lab" program. (10)
- 13.(a) Describe the architecture of CORBA in detail. (6)  
(b) Write the steps to create a COM object. (4)
- 14.(a) Explain the servlet lifecycle in detail with the help of API. (7)  
(b) How is SOAP different from traditional RPC? (3)
15. Explain the following :  
(a) SOAP (3)  
(b) WSDL (3)  
(c) Overview of .NET architecture (4)
16. Explain the concept of session bean and its types in detail. (10)
17. Explain in detail RPC and messaging peer to peer. (10)