

**MCA DEGREE EXAMINATIONS: NOV/DEC 2014**

(Regulation 2013)

Third Semester

**MASTER OF COMPUTER APPLICATIONS**

P13CAT302: Middleware Technologies

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 2 = 10 Marks)**

1. Give the roles of group server in middle ware systems.
2. What are called Fat Server and Fat Client?
3. What is the difference between `ejbStore()` and `ejbLoad()`?
4. Why does EJB need Remote and Home interfaces?
5. List down the information contained in the Deployment descriptor Class.
6. What is JNDI?
7. Define. Marshalling
8. Highlight any four features of .NET framework
9. Write the use of CORBA IDL?
10. What is an object reference?

**Answer any FIVE Questions:-**

**PART B (5 x 16 = 80 Marks)**

**Q.No:11 is Compulsory**

11. (i) What is called Stateless Session Bean? Write a Stateless Session Bean to (10)  
implement the basic arithmetic operations.
- (ii) Explain briefly about the CORBA architecture concepts. (6)
12. (i) List out the necessary characteristics of Client/Server Systems. (6)
- (ii) Compare the message oriented middleware and remote procedure call. (10)

13. (i) Explain the services provided by the EJB container. (10)  
(ii) Describe the steps involved in developing and deploying EJBs. (6)
14. (i) Illustrate briefly about the state full session bean Life cycle. (8)  
(ii) Differentiate between session beans and entity beans. (8)
15. Draw the .Net framework architecture. Explain the components briefly.
16. (i) Highlight the similarities and differences between COM and CORBA. (8)  
(ii) Write a CORBA client application to say “hello” and explain how an ORB object is created and accessed to invoke the specified operation in your coding. (8)

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