M.C.A. DEGREE EXAMINATIONS: APRIL 2010

Fourth Semester

P07CA404: MIDDLE WARE TECHNOLOGIES

Time: Three Hours   **Maximum Marks: 100**

Answer ALL the Questions:-

PART A (1 x 20 = 20 Marks)

1. State the roles of EJB in eco system.

2. Enumerate the difference between CMP and BMP

3. What is the role of IDL and IDL compiler in distributed system?

4. What are the services that the EJB container provides to EJB?

5. When COM destroys the objects?

6. What are information contained by deployment descriptor?

7. List the roles of .NET base class libraries

8. What is marshaling by value?

9. What is the need remote and home interface? What can't it be in one?

10. What do you mean by client stub?

PART B (5 x 16 = 80 Marks)

11. (a) What are the components of Client/Server environment? How these components interact

with one another. What are the functions performed by the components.

(OR)

(b) How is RPC implemented in client server environment? Explain in detail the various

issues involved while implementing with diagram.

12. (a) i) Explain the basic roles in an EJB environment in detail?   (10)

ii) Write the steps to deploy a new EJB module?   (6)

(OR)

(b) Draw and explain the architecture of EJB?

13. (a) Explain the main steps employed for server-side and client side EJB development in detail.

(OR)

(b) i) Explain in detail about life cycle of Entity Bean? (10)

ii) Describe the functions of different types of client views available in EJB. (6)

14. (a) i) Explain the architecture of CORBA in detail? (8)

ii) Write the IDL program for the " Hello world " program? (8)

(OR)

(b) i) Compare the features of DCOM and CORBA. (8)

ii) Write in detail about .NET framework architecture. (8)

15. (a) Write the steps involved in a remote method invocation in COM and CORBA.

(OR)

(b) Explain the interfaces in COM .Write the steps to create a COM object.

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