FACULTY OF INFORMATICS
B.E. 4/4 (IT) I – Semester (Main) Examination, November 2013

Subject : Middleware Technologies

Time : 3 hours   Max. Marks : 75

Note: Answer all questions from Part–A. Answer any FIVE questions from Part–B.

PART – A (25 Marks)

1. Draw the diagram that depicts the building block of client server.   3

2. Write short notes on SOAP.   2

3. What is peer-to-peer communication? Give two examples.   3

4. What are the different roles in EJB Application Development?   2

5. What is the need of struts Framework?   2

6. What are the different state management techniques in servelets and write the context in which each technique is used.   3

7. What is an IDL? How do you compile and IDL Interface?   3

8. What does IIOP stand for, and what is its significance?   2

9. What are COM components?   2

10. What are the main differences between EJB 2.1 and EJB 3.0.   3

PART – B (50 Marks)

11.a) How is RPC implemented in client server environment? Explain in detail the various issues involved while implementing with diagram.   7
   b) What is a web service? What is the use of it?   3

12.a) Differentiate between stateless session bean and stateful session bean.   5
   b) Explain the life cycle of stateful session bean in brief.   5

13.a) Explain the role of each class of struts Framework in detail with a neat diagram.   6
   b) Write the sample struts configuration file showing the mapping of form bean class
      and action sub class.   4

14.a) Explain the CORBA architecture with a neat sketch.   7
   b) How does the use of IDL enhance language independence of CORBA objects?   3

15.a) Compare and contrast COM and CORBA.   5
   b) Explain the architecture of **.**NET Framework.   5

16.a) Differentiate between GET and POST.   4
   b) What is the difference between using get session (true) and get session (false)
      method?   3
   c) What is the disadvantage of using Cookies?   2

17.a) Explain the **.**NET framework remoting architecture.   5
   b) Explain the differences between Jsp and Servlet.   5

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