

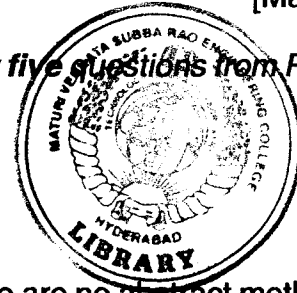
FACULTY OF INFORMATICS
B.E. 4/4 (IT) I Semester (Main) Examination, December 2011
MIDDLEWARE TECHNOLOGIES

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. What is a web service ? 2
2. Why Http servlet class declared as abstract though there are no abstract methods in that class ? 3
3. What is the controller component in struts frame work and its responsibility ? 3
4. What is session tracking in servlets ? 3
5. What is dependency injection in EJB3 ? 2
6. What is OR mapping in Entity beans ? 2
7. What is the purpose of Interface definition language. 2
8. Write short notes on CLR in NET. 3
9. What is ORB ? 3
10. Compare COM and CORBA. 2

PART – B

(50 Marks)

11. a) Explain flow of execution of STRUTS frame work. 8
b) Explain how STRUTS fits into MVC architecture. 2
12. Develop a web application to display exam results when hall ticket number is submitted by client. 10
(note : use servlets and oracle drivers)

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| 13. Explain architecture of .NET in detail. | 10 |
| 14. a) Explain session management in servlets. | 5 |
| b) Explain how a form bean class is mapped to action sub class. | 5 |
| 15. Explain the following : | |
| a) SOA | 5 |
| b) SOAP | 5 |
| 16. a) Explain life cycle of stateful session bean. | 5 |
| b) Explain life cycle of stateless session bean. | 5 |
| 17. a) Compare and contrast EJB3 and EJB2. | 7 |
| b) Explain flow of execution of COM. | 3 |