



Code No. : 6226/O/S

**FACULTY OF INFORMATICS**  
**B.E. 4/4 (IT) I Semester (Old) Examination, June 2014**  
**MIDDLEWARE TECHNOLOGIES**

Time: 3 Hours]

[Max. Marks: 75

**Note :** Answer *all* questions from Part – A and *any five* questions from Part – B.

PART – A

(25 Marks)

1. Differentiate between client server. 2
2. What is meant by middleware ? 3
3. Discuss about MVC architecture. 3
4. What is the role of validator ? 2
5. What is stateless session bean ? 3
6. Why deployment descriptor is required ? 2
7. What is the use of IDL ? 2
8. Discuss the role of ORB in CORBA. 3
9. Differentiate between stub and skeleton. 2
10. What is the use of CLR in .Net Framework ? 3

PART – B

(50 Marks)

11. a) Discuss about Web Services. 5  
b) What are the REST services ? Explain. 5
12. a) Explain about servlet life cycle methods with an example. 5  
b) Write briefly about struts framework. 5
13. Discuss about Entity Beans and Session Beans life cycles. 10
14. a) Describe the architecture of CORBA. 5  
b) Explain IIOP and Dynamic Invocation. 5
15. a) Discuss the overview of .NET architecture. 5  
b) Compare COM and CORBA. 5
16. a) Explain the features of .NET. 5  
b) Discuss data types and interfaces in COM. 5
17. Write short notes on : (5+5)  
a) SOAP b) WSDL.