Code No. 9243

http://www.osmaniaonline.com

FACULTY OF INFORMATICS

B.E. 4/4 (IT) I - Semester (Main) Examination, Dec. 2014 / Jan. 2015

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)

3 4	Differentiate between MOM and RPC. How does the client find its server in RPC? What are the key features of the EJB technology? What is validation Framework?	3 2 3 2
	What is the meaning of in, out and inout specified before the parameter name in CORBA methods?	3
7 8 9	Why are language mapping a necessary part of CORBA? Write sample code to create a Session Object and invalidate existing session. Write steps to establish connection with JDBC. Briefly explain what is IL code. What is assembly in .NET framework?	2 3 2 3 2
	PART – B (50 Marks)	
11	a) Explain the servlets API in detail.b) Explain the session API with an example program.	5 5
12	a) What is struts Framework? Explain the flow of execution of a struts application.b) Write a servlet program for login validation.	6 4
13	a) Explain the architecture of MOM. How is it different from other types of	_
	middleware? b) What are the similarities and differences between RMI and CORBA?	5 5
14	a) List and explain any five CORBA alternatives.b) Why CORBA objects need to be reference counted?c) What are the advantages of DII over static invocation in CORBA?	5 2 3
15	 a) Explain the architecture of EJB 3. How EJB 3 is light weight compared to EJB 2.1? http://www.osmaniaonline.com b) What is the difference between web server and application server? 	6 4
16	Draw the architecture of .NET and how does CLR execute the .NET source code? Explain the steps involved in it.	10
17	Write short notes on the following :	3
	a) Web services b) Cookies	3 4
	c) .NET base class libraries	3
