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)

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