

FACULTY OF ENGINEERING**B.E. 4/4 (IT) I-Semester (OLD) Examination, April / May 2019****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)**

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| 1. Differentiate between MoM and RPC | 3 |
| 2. Write short notes on SoA | 2 |
| 3. What is validation frame work | 2 |
| 4. What are the servlet life cycle methods | 3 |
| 5. What is the meaning of in, out & in out specified I CORBA methods | 3 |
| 6. What is the difference between entity and session beans | 2 |
| 7. Write sample code to create a lesion object and invalidate existing session | 3 |
| 8. What is the difference between stab & skeleton | 3 |
| 9. Briefly explain what is IL code | 2 |
| 10. What is assembly in .NET framework? | 2 |

PART – B (5x10 = 50 Marks)

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| 11 a) Explain the Architecture of MOM. How is its different from other types of middleware? | 5 |
| b) Write a servlet program for login validation | 5 |
| 12 a) Write steps to establish connection with JDBC | 5 |
| b) Explain the usage of annotations in EJB? | 5 |
| 13 a) Explain the flow of execution in struts | 5 |
| b) Write the differences between SOAP & REST | 5 |
| 14 a) List and explain any 5 CORBA Alternatives | 4 |
| b) Why CORBA objects need to be reference executed | 3 |
| c) What are the advantages of DII over static invocation in CORBA | 3 |
| 15 How does .NET support multiple languages? Explain. | 10 |
| 16 a) Explain the importance of Marshalling in NET | 5 |
| b) What is the difference between web server and application server | 5 |
| 17 Explain the Architecture of .NET frame work | 10 |
