

**R15**

Code No: 128FD

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year II Semester Examinations, May - 2019****WEB SERVICES****(Computer Science and Engineering)**

Time: 3 hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B.  
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART - A****(25 Marks)**

- |      |  |     |
|------|--|-----|
| 1.a) | What is RMI?   | [2] |
| b)   | What are the benefits of using web services?                           | [3] |
| c)   | What is the use of SOAP fault?   | [2] |
| d)   | What are the limitations of SOAP?                                      | [3] |
| e)   | What is WSDL binding?  | [2] |
| f)   | What is the purpose of the WSDL language in the web services standard? | [3] |
| g)   | What is UDDI?  | [2] |
| h)   | What are the limitations of UDDI?                                      | [3] |
| i)   | What are the goals of Cryptography                                     | [2] |
| j)   | Explain the features of .NET?  | [3] |

**PART - B****(50 Marks)**

- |      |  |       |
|------|--|-------|
| 2.a) | Explain the evolution of distributed computing.            |       |
| b)   | Discuss the role of J2EE and XML in distributed computing. | [5+5] |

**OR**

- |      |  |       |
|------|--|-------|
| 3.a) | What are web services? What are the major technical reasons for choosing web services over web applications? |       |
| b)   | What are the key benefits and challenges associated with web services?                                       | [5+5] |

- |    |  |      |
|----|--|------|
| 4. | Discuss the architecture and the importance of SOAP. | [10] |
|----|--|------|

**OR**

- |      |  |       |
|------|--|-------|
| 5.a) | Discuss about SOAP communication and messaging.                                |       |
| b)   | Explain how a structure and an integer with a range check are encoded in SOAP? | [5+5] |

- |      |  |       |
|------|--|-------|
| 6.a) | What information does WSDL definition contain about the web service? |       |
| b)   | Explain the anatomy of a WSDL definition document.                   | [5+5] |

**OR**

- |      |   |       |
|------|---|-------|
| 7.a) | Describe the steps of the Web Service life cycle with a neat diagram. |       |
| b)   | Give a short note on WSDL tools.                                      | [5+5] |

8R 8R 8R 8R 8R 8R 8R

8. Explain the primary UDDI data structures. [10]

**OR**

9.a) Describe the usage of UDDI in error recovery. [5+5]  
b) Explain the publishing of information to a UDDI registry.

10.a) Explain the challenges in Web Services Interoperability. [5+5]  
b) Explain the creation of .NET client for an Axis web service.

**OR**

11. In detail, explain XML security framework. [10]

8R 8R 8R 8R 8R 8R 8R

---ooOoo---

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R