

R13

Code No: 118FE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year II Semester Examinations, May - 2017****WEB SERVICES****(Information Technology)****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) List the core distributed technologies. [2]
- b) What are the benefits of using web services? [3]
- c) What is the use of SOAP digital signature? [2]
- d) What are SOAP attachments? [3]
- e) What is the future of WSDL? [2]
- f) How to delete information from a UDDI registry? [3]
- g) What are the goals of cryptography? [2]
- h) What are the significant features of .NET? [3]
- i) List the line of business services. [2]
- j) Give service contract elements. [3]

PART - B**(50 Marks)**

- 2.a) What are the challenges faced in distributed computing?
- b) Illustrate a high level MOM architecture showing application-to-application connectivity. [5+5]

OR

3. How to develop Java based web service? Explain with an illustrative example. [10]

- 4.a) Describe SOAP message exchange model.
- b) Discuss communication model of SOAP. [5+5]

OR

5. Explain the infrastructure and components of Axis. [10]

- 6.a) Describe the anatomy of a WSDL definition document.
- b) Discuss the steps to implement doSearch() on UDDI registry. [5+5]

OR

- 7.a) Explain publishing API functions
- b) How to work with UDDI registry on the Systinet WASP 4.0 platform? [5+5]

8. What is the importance of interoperability of web services? Explain the means of ensuring interoperability with illustrations. [10]

OR

9.a) Discuss security aspects of XML encryption.

b) Demonstrate hash cipher of cryptography. [5+5]

10. Explain the technical benefits and business benefits of service oriented architectures. [10]

OR

11.a) What are the key characteristics of service oriented architecture?

b) Give an account of asynchronous store-and-forward messaging. [5+5]

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