

Code No: 118FD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2017

**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 are the reasons for choosing Web services over Web applications? [2]
- b) Give the advantages of distributed computing compared to a traditional standalone application? [3]
- c) Give the SOAP 1.1 specifications? [2]
- d) Write a SOAP request message to get book price information for the book "Introduction to Web services". [3]
- e) What are the two important namespaces of <definitions> element [2]
- f) What are the four pieces of information of a WSDL definition? [3]
- g) What are the two ways of interacting with a UDDI Registry Service. [2]
- h) Compare Public and Private UDDI Registries? [3]
- i) Define Digital certificate? What is the role of Certification Authority in it? [2]
- j) Define the goals of cryptography? [3]

**PART - B**

(50 Marks)

- 2.a) Discuss about Java RMI architectural model. Give its advantages and disadvantages.
- b) Describe the role of xml and ebxml in web services. [5+5]

**OR**

- 3.a) Explain the basic operational model of Web Services.
- b) Discuss about CORBA architectural model? Give its advantages and disadvantages. [5+5]

- 4.a) Describe the SOAP Envelope and Header elements of a SOAP message with pseudo code listings.
- b) Write notes on Java and Axis. [5+5]

**OR**

5. Explain the two types of communication models supported by SOAP. [10]

- 6.a) Describe the seven key structural elements of a WSDL definition document.
- b) What are the functionalities provided by WSDL tools? List the famous WSDL tools in the Java Web services space. [5+5]

**OR**

7. Discuss in detail Web service life cycle and WSDL bindings. [10]

AG AG AG AG AG AG AG A

8. Describe the Primary UDDI data structures. [10]

OR

9.a) Explain the two XML-based programming APIs used for communicating with the UDDI registry node.

AG AG AG AG AG AG AG A

b) Write the programming steps for publishing. [5+5]

10.a) Discuss the basic concept of .NET framework.

b) Explain the various available implementations of XML Encryption. [5+5]

OR

11. Describe XML encryption by example. [10]

AG AG AG AG AG AG AG A

---ooOoo---

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A