Code No: 118FD

R13

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]

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.
   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]

---ooOoo---