R13

Code No: 118FD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, April - 2018
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) Discuss the various building blocks of web services architecture. [2]
  b) Explain the web services operational model. [3]
  c) What is the importance of Faultcode element in SOAP fault? [2]
  d) Define deserialization. [3]
  e) Discuss the limitations of WSDL. [2]
  f) What are the various functionalities provided by WSDL tools? [3]
  g) Explain SOA in brief. [2]
  h) Differentiate between public and private UDDI registries. [3]
  i) What are digital signatures? [2]
  j) Define non-repudiation and integrity. [3]

PART - B
(50 Marks)

2.   Briefly explain the following:
     a) Simple Object Access Protocol.
     b) Web Service Description Language
     c) Universal Description, Discovery and Integration. [10]

OR

3.   Explain the role of J2EE and XML in distributed computing. [10]

4.   Explain how SOAP encoding is done for the following with examples:
     a) Structure types
     b) Multiple references in Arrays
     c) Enumeration. [10]

OR

5.   Explain how SOAP web services are developed using java with an example. [10]

6.   Explain how SOAP binding is done in WSDL with an example. [10]

OR

7.   Briefly explain the various structural elements of a WSDL document with an example. [10]

8.a) Discuss the various UDDI specifications.
  b) Explain the various UDDI data structures.   [5+5]

OR

9. Explain the following functions in Publishing API:
  a) save_xx
  b) delete_xx   [5+5]

10.a) Explain how is interoperability achieved in web services.
  b) Explain the steps involved in creating a java client for a web service.   [5+5]

OR

11. Write short notes on:
  a) Symmetric ciphers.
  b) Asymmetric ciphers.
  c) Digital certificates.
  d) XML encryption.   [10]

---ooOoo---