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]

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