

R13

Code No: 118FD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, April - 2018

WEB SERVICES

(Computer Science and Engineering)

Max. Marks: 75

Time: 3 hours

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.
- b) Explain the web services operational model.
- c) What is the importance of Faultcode element in SOAP fault?
- d) Define deserialization.
- e) Discuss the limitations of WSDL.
- f) What are the various functionalities provided by WSDL tools?
- g) Explain SOA in brief.
- h) Differentiate between public and private UDDI registries.
- i) What are digital signatures?
- j) Define non-repudiation and integrity.

[2]
[3]
[2]
[3]
[2]
[3]
[2]
[3]
[2]
[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.
3. **OR**
Explain the role of J2EE and XML in distributed computing.
4. Explain how SOAP encoding is done for the following with examples:
 - a) Structure types
 - b) Multiple references in Arrays
 - c) Enumeration.
5. **OR**
Explain how SOAP web services are developed using java with an example.
6. Explain how SOAP binding is done in WSDL with an example.
7. **OR**
Briefly explain the various structural elements of a WSDL document with an example.

[10]

[10]

[10]

[10]

[10]

[10]

[10]

- 8.a) Discuss the various UDDI specifications.
b) Explain the various UDDI data structures.

[5+5]

9. Explain the following functions in Publishing API:

OR

- 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---