Code No: 128FD

**R15**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, July - 2019
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 goals of SOA? | [2] |
| b) | List out the technical benefits of SOA. | [3] |
| c) | What are the main uses of header in a SOAP message? | [2] |
| d) | Give an example of Structure type in SOAP encoding styles. | [3] |
| e) | What is the role of WSDL? | [2] |
| f) | Discuss about Web Service Life Cycle. | [3] |
| g) | What is the use of UDDI data structure <businessEntity>? | [2] |
| h) | Differentiate between public and private UDDI registries. | [3] |
| i) | What is the purpose of SOAP Proxies? | [2] |
| j) | What are the challenges in creating Web Services Interoperability? | [3] |

## PART - B

(50 Marks)

2.a) Explain about operational Model of Web Services.
 b) Briefly discuss about Core Distributed Computing Technologies. [5+5]

OR

3.a) What is a web service? Define and explain the operational model of web services.
 b) Explain the web service architecture and its characteristics. [5+5]

4. What are the main components of SOAP message? Explain each of them using examples. [10]

OR

5.a) Explain the SOAP encoding.
 b) Give a short note on Java and Axis. [5+5]

6. List out various WSDL tools and discuss each of their functionalities. [10]

OR

7. Briefly discuss about different components of a WSDL document, using examples.[10]

8. List and explain various APIs used for communicating with a UDDI registry. [10]

**OR**

9. Give briefly the programming steps for:
a) Publishing and    b) Searching in UDDI. [5+5]

10. What are different means of ensuring Interoperability? Briefly discuss each of them.[10]

**OR**

11. Explain in detail various components of Microsoft .Net Framework. [10]

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