

Code No: 138FH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, September - 2020

WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE

(Computer Science and Engineering)

Time: 2 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

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- 1.a) Elaborate the role of J2EE in distributed computing.
b) Discuss various challenges of Distributed Computing. [8+7]
- 2.a) Explain in detail about different Layers of SOA.
b) Name and briefly describe each of the types of Web Services. [8+7]
- 3.a) How can you use WSDL to create client stubs? Illustrate with an example.
b) List and explain basic steps for implementing web services. [7+8]
- 4.a) Explain in detail about Characteristics of web services.
b) Illustrate the process of communicating between a proxy and a Web service. [7+8]
- 5.a) Describe the concept of Polymorphism in XML. Illustrate with an example.
b) Elaborate various advantages and disadvantages of SOAP. [8+7]
- 6.a) Describe the UDDI data structures and their interrelationships in UML
b) Discuss about *Asymmetric-key cryptography*. [7+8]
- 7.a) Explain why it is useful to have various UDDI deployment variants. Briefly describe two important private UDDI variants.
b) Describe in detail about UDDI usage model. [10+5]
- 8.a) Explain in detail about *Circuit-level gateway*.
b) Explain about Secure Sockets Layer (SSL). [7+8]

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