

R16

Code No: 138FH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, July - 2021

WEB SERVICES AND SERVICE ORIENTED ARCHITECTURE

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Contrast two-tier and three-tier architecture of client-server models.
b) Discuss the features of RMI which made it as the core of the J2EE architectural model. [7+8]
- 2.a) Explain the influence of web services in today's enterprise business.
b) Compare the challenges of distributed computing with challenges of using web services. [7+8]
- 3.a) Which communication model do you prefer among RPC and message-based? Justify your preference.
b) Explain the life cycle of a web service with an example. [7+8]
4. Write code to develop a webservice for customer registration for insurance company using J2EE- explain the functions exposed by this service provider. [15]
- 5.a) With examples describe various types of WSDL operation.
b) What are the basic rules to write XML document? Explain. [8+7]
- 6.a) How to handle the custom encoding requirements specific to applications using SOAP? Explain with suitable code.
b) Differentiate between forwarding and active SOAP intermediaries. [7+8]
- 7.a) How do you find a user authentication service and other related business services in a registry? Explain with supporting code.
b) Demonstrate publishing information to a UDDI registry. [8+7]
- 8.a) Elaborate the security threats and attacks to web services.
b) Web services metadata exchange defines three request-response message pairs to retrieve three types of meta data. Explain them with examples. [7+8]

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