



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code:2E7EE

B.Tech VII Semester Regular/Supplementary Examinations, November 2022

WEB SERVICES

(Professional Elective)

(Computer Science and Engineering)

Maximum Marks: 70

Date:03.12.2022 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

- 1 Why use web services?
- 2 Identify the benefits of implementing web services.
- 3 Enumerate the types of communication model supported by SOAP.
- 4 Give some limitations of SOAP.
- 5 What is WSDL?
- 6 Define WSDL bindings.
- 7 Discuss the need for UDDI in Web services.
- 8 Define the limitation of UDDI.
- 9 Identify the challenges in creating web service interoperability.
- 10 How to secure web services?

(10x2M=20 Marks)

Part-B

Answer All the following questions.

- (5X10M=50Marks)
- 11 A. Identify the core building blocks of typical web service architecture. 6M
B. List out the design requirements for web service architecture. 4M
- OR
- 12 A. Elaborate the process steps involved in implementing web services. 6M
B. Compare RPC-based communication model and Messaging based communication model. 4M
- 13 A. Draw the structure of SOAP message with attachments. 4M
B. Write a SOAP request and response message for getting book price information from www.wiley.com for the book Developing Java Web services. 6M
- OR
- 14 A. Discuss about SOAP message exchange model. 5M
B. Create a simple web service using Apache Axis. 5M

- 15 A. Draw the diagram to illustrate the steps of web service life cycle. 4M
B. Explain the key structural elements of WSDL definition document. 6M
- OR
- 16 A. Discuss the functionality of WSDL tools and list out any five WSDL tools in Java web services space. 5M
B. Discuss about generation of WSDL from a Java class. 5M
- 17 A. What is an UDDI registry? Explain the two modes of UDDI registries. 5M
B. Discuss about UDDI data structures 5M
- OR
- 18 A. Discuss about publishing API of the UDDI registry. 5M
B. Discuss about the process of publishing information in a UDDI registry. 5M
- 19 A. Discuss the major components of .NET framework. 5M
B. List out steps for creating a web service client using .NET framework. 5M
- OR
- 20 A. Discuss about digital signature and digital certificates. 5M
B. Discuss about XML encryption. 5M