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**Question Paper Code : 70836**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

Seventh Semester

Information Technology

IT 8074 – SERVICE ORIENTED ARCHITECTURE

(Common to : Computer Science and Engineering/Computer and Communication Engineering)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define DTD.
2. What is Xquery?
3. Give the steps to composing SOA.
4. State the role of service layer in SOA.
5. What is SOAP messaging?
6. State the relationship between SOAP and WSDL.
7. Name any two elements of WS-Policy.
8. What is ACID property in WS-Transaction?
9. Define service orientation.
10. What are the types of derived business services?

PART B — (5 × 13 = 65 marks)

11. (a) (i) When can you say a XML document as well-formed and valid document. (6)  
(ii) How to transform XML to XSL? Explain with example. (7)

Or

- (b) (i) With example, explain the components of XML document structure. (6)  
(ii) State the difference between XML schema and DTD. (7)

12. (a) (i) Compare and contrast SOA with distributed architecture. (6)  
(ii) Give the principles and characteristics of service orientation. (7)

Or

- (b) (i) Discuss the characteristics and benefits of SOA. (6)  
(ii) Explain the components of service-oriented architecture. (7)

13. (a) (i) How to write a SOAP message? Give two forms of messaging used in SOAP. (6)  
(ii) Discuss about different service level interaction pattern. (7)

Or

- (b) (i) Compare and contrast Orchestration and Choreography. (6)  
(ii) How does UDDI works? State the components of UDDI. (7)

14. (a) (i) Write a brief note of WS-Policy framework. (6)  
(ii) Describe the various elements of WS-ReliableMessaging language basics. (7)

Or

- (b) (i) Discuss about transport-level and message-level security in WS-Security. (6)  
(ii) Present the Message Addressing properties of WS-Addressing. (7)

15. (a) (i) What is service design? Give the guidelines for service design. (6)  
(ii) List out the benefits of business-centric SOA. (7)

Or

- (b) (i) Briefly give the overview of WSDL language basics. (6)  
(ii) State the common principles of service orientation, Explain how service-orientation principles inter-relate. (7)

PART C — (1 × 15 = 15 marks)

16. (a) Explain the various phases of SOA delivery lifecycle phases. Compare the top-down, bottom-up and agile strategy of SOA delivery. (15)

Or

- (b) Compare and contrast the step-by-step process of Entity centric business service design and Task-centric business service design. (15)
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