

P P SAVANI UNIVERSITY

Fifth Sêsemester of B. Tech. Examination

December 2022

SECE3520 Service Oriented Architecture (Elective-I)

06.12.2022, Tuesday

Time: 10:00 a.m. To 12:30 p.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]	CO	BTL
(i)	What is Service Oriented Architecture (SOA).		1	1
	a) Strongly Coupled			
	b) Loosely Coupled			
	c) Strongly Cohesive			
	d) Loosely Cohesive			
(ii)	We can build Service Oriented Architecture (SOA) using Object Oriented (OO) language.		1	2
	a) True			
	b) False			
(iii)	What is service?		1	1
(iv)	What is WSDL?		3	1
(v)	Explain Role of UDDI in SOA.		3	1
(vi)	Explain SOAP Request message format.		3	1
(vii)	What is Context Information?		2	1
Q - 2 (a)	List SOA benefits. Compare SOA with Enterprise Architecture	[05]	2	1
Q - 2 (a)	What is XML? Write XML for PPSU student mark sheet and display it using CSS.	[05]	3	6

OR

Q - 2 (a)	What is the importance of XML in SOA? Write XML for PPSU fee receipt and display it using CSS or XSD.	[05]	3	2
Q - 2 (b)	Compare: RPC Vs. Web service in SOA.	[05]	2	1
Q - 3 (a)	Explain Web Service Framework with suitable example.	[05]	3	1
Q - 3 (b)	Explain Service composition and monitoring in SOA.	[05]	2	1

OR

Q - 3 (a)	Explain Key Principles of SOA.	[05]	2	1
Q - 3 (b)	Why WSDL is used in SOA? Explain WSDL with example	[05]	3	1
Q - 4	Attempt anyone.	[05]		
(i)	Explain UDDI with example and its role in SOA.		3	1
(ii)	Explain real time case study of SOA implementation.		3	2

SECTION - II

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]		
(i)	What is Intermediate services?		3	1
(ii)	What is Service Composition?		3	1
(iii)	How to publish Web services?		3	1
(iv)	What is WS-Security?		2	1
(v)	How to deploy services?		2	1

(vi)	Define Service Discovery.		3	1
Q - 2 (a)	What is Service Activity? Explain context information during activities by suitable example.	[05]	2	1
Q - 2 (b)	Explain Message Exchange Pattern. Give suitable example.	[05]	2	1
OR				
Q - 2 (a)	Differentiate RPC versus Document Orientation.	[05]	1	2
Q - 2 (b)	Explain Coordination framework with the help of real-life example.	[05]	2	2
Q - 3 (a)	What is Orchestration? Discuss Orchestration control in SOA with suitable example.	[05]	2	1
Q - 3 (b)	A Choreography enables collaboration between two different Orchestration. Justify the statement with proper example.	[05]	2	1
OR				
Q - 3 (a)	What is Atomic Transaction? Give example of Washing Process for Atomic Transaction.	[05]	2	1
Q - 3 (b)	Discuss WS-Addressing and WS- Reliable Message Service.	[05]	2	1
Q - 4	Attempt anyone.	[05]		
(i)	Differentiate Orchestration versus Choreography. Consider Case study example of both the approaches.		2	2,3
(ii)	Discuss all the phases of Web Service Life Cycle.		3	4

CO : Course Outcome Number BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create