Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

PRESIDENCY UNIVERSITY
BENGALURU

School of Computer Science and Engineering
Mid - Term Examinations - November 2024

Semester: V   **Date**: 07/11/2024

Course Code: CSE3125   **Time**: 02.00pm to 03.30pm

Course Name: Service Oriented Architecture   **Max Marks**: 50

Program: B.Tech   **Weightage**: 25%

Instructions:
    (i) Read all questions carefully and answer accordingly.
    (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.   **5Qx2M=10M**

1	List and explain the features of xml.	2 Marks	L	CO1
2	Define XSLT.	2 Marks	L	CO1
3	Define Architecture.	2 Marks	L	CO2
4	Define Application logic.	2 Marks	L	CO2
5	Define Distributed Internet Architecture.	2 Marks	L	CO2

Part B

Answer ALL Questions. Each question carries 10 marks.   **4QX10M=40M**

6	a.	Define the following with suitable examples (i) Root element (ii) Attributes	2Marks	L1	CO1
	b.	Differentiate XML and HTML	3Marks	L2	CO1
	c.	Develop an XML document with an internal DTD to define a library system.	5Marks	L3	CO1

Or

7	a.	Define Parser. Explain the types of parsers with examples.	2Marks	L1	CO1
	b.	Compare DOM and SAX.	3Marks	L2	CO1
	c.	Write an XML document using namespaces to manage different product categories.	5Marks	L3	CO1

8	a.	Define (i) Xpath (ii)Xquery	2Marks	L1	CO1
	b.	Explain the purpose of the XML declaration	3Marks	L2	CO1
	c.	Develop an XML document for handling student grades using external DTD.	5Marks	L3	CO1

Or

9	a.	List the rules for writing XML element.	2Marks	L1	CO1
	b.	Describe the importance of XML schemas.	3Marks	L2	CO1
	c.	Design an XML document to manage customer orders using XML Schema for validation.	5Marks	L3	CO1

10	a.	With diagram define single tier client server architecture	2Marks	L1	CO2
	b.	Explain how services are reusable in service-oriented architecture.	3Marks	L2	CO2
	c.	List and explain the characteristics of contemporary SOA	5Marks	L3	CO2

Or

11	a.	List the components of service-oriented architecture.	2Marks	L1	CO2
	b.	With an example describe how service-oriented architecture provides service composability.	3Marks	L2	CO2
	c.	Explain how service orientation principle interrelate with each other.	5Marks	L3	CO2

12	a.	Define stateless service.	2Marks	L1	CO2
	b.	Explain how services abstract underlying logic in SOA.	3Marks	L2	CO2
	c.	Can the adoption of SOA lead to cost savings for an organization? Produce examples or scenarios to support your answer.	5Marks	L3	CO2

Or

13	a.	Define Service Activity.	2Marks	L1	CO2
	b.	List and explain different types of architecture.	3Marks	L2	CO2
	c.	Differentiate between service orientation and object orientation.	5Marks	L3	CO2