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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - OCT 2023**

Semester : Semester V - 2021

Course Code : CSE3125

Course Name : Sem V - CSE3125 - Service-Oriented Architecture

Program : B. TECH

Date : 2-NOV-2023

Time : 2:00PM - 3:30PM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
 - (ii) Question paper consists of 3 parts.
 - (iii) Scientific and non-programmable calculator are permitted.
 - (iv) Do not write any information on the question paper other than Roll Number.
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PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. Define XML attribute name and attribute value with an example. (CO1) [Knowledge]
2. Define Namespace and list out the features of target namespaces. (CO1) [Knowledge]
3. List out the primary characteristics of the Distributed Internet Architecture. (CO2) [Knowledge]
4. Define Stateful service and list out its importance. (CO2) [Knowledge]
5. List out the roles of markup and text in an XML document. (CO1) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

6. A manager wants data in a particular format for a specific report. This data is currently located in several different data stores. A new set of tables and the data transformations to fill those tables have to be created to fulfill this one request. How the manager will format the xml data into alternate format using specific transformation techniques. (CO1) [Comprehension]

7. Microsoft has crafted Visual Basic to allow the creation of reusable components which is invisible to the client that can be deployed and accessed on remote machines of the components' services. Explain single tier client server architecture with a neat diagram.
(CO2) [Comprehension]
8. Organizations have both an increasing need and an expanding capability to transform data. Some of this increasing need comes from a desire to improve and extend transaction processing systems, and many companies are developing Business Intelligence systems in order to view and many companies use XML documents to view and analyze data more quickly. Describe the valid XML and well-formed XML document with example.
(CO1) [Comprehension]
9. List and explain the characteristics and limitations of SOA.
(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

10. a. Demonstrate the XSLT process to display the specified library data and all of its components.

Name	UID	Book_Title	Borrowed_Date
Samiksh	13-2038-01	Java	07-Aug-18
Rahil	13-2038-15	Programming in C	14-Aug-18
Nishanth	13-2038-19	DBMS	13-Sep-18

b. VANCO is a Virtual Network Provider wanted to extend a trouble ticketing system as a shared business process to a business partner. Identify and discuss the suitable Service Oriented Architecture with its components which helps VANCO.

(CO2,CO1) [Application]