PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF ENGINEERING
END TERM EXAMINATION - JAN 2023

Semester : Semester V - 2020
Course Code : CSE3125
Course Name : Sem V - CSE3125 - Service-Oriented Architecture
Program : B.Tech. - ISE

Date : 16-JAN-2023
Time : 9.30AM - 12.30PM
Max Marks : 100
Weightage : 50%

Instructions:
(i) Read all questions carefully and answer accordingly.
(ii) Question paper consists of 3 parts.
(iii) Scientific and non-programmable calculator are permitted.

PART A

ANSWER ALL THE TEN QUESTIONS
10 X 2 = 20M

1. List out the limitations of HTML.

(CO1) [Knowledge]

2. Define Extensible Style sheet Language.

(CO1) [Knowledge]

3. Define attribute name and attribute value in XML.

(CO1) [Knowledge]

4. List out the primary characteristics of the two tier client server architecture.

(CO2) [Knowledge]

5. Define Stateful service.

(CO2) [Knowledge]

6. Define the structure of WSDL.

(CO3) [Knowledge]

7. Define Stateless service.

(CO3) [Knowledge]

8. List and explain the types of cryptography.

(CO4) [Knowledge]

9. Define XPointer.

(CO4) [Knowledge]

10. List out the constraints introduced by the SOAP web services·

(CO2) [Knowledge]

PART B

ANSWER ALL THE FIVE QUESTIONS   **5 X 10 = 50M**

11. ESB Building Society,Ireland's largest mutual building society, arrived an SOA model of delivery by accident , which had been doing integration and service works for years.The company opted for parsing method. Describe SAX parser with its components.

(CO1) [Comprehension]

12. Alice, Bob and Carol work for different departments but are responsible for different activities that make up a business process. Some of the process steps need IT support and some don't. Carol owns a desktop application and a smartphone application.They all decided to describe their work using XML document. Describe the structure of XML document with suitable example.

(CO1) [Comprehension]

13. HDFS(Hadoop Distributed File System) has a remarkable creation from Doug cutting that continues to be the key component of most big data systems.HDFS tended to encourage people to be more experimental, agile in their approach to embrace all kinds of wacky data formats.Show how Service Oriented Architecture is different from Distributed Server Architecture.

(CO2) [Comprehension]

14. Describe how SOA modularizes automation logic into units.

(CO3) [Comprehension]

15. To organise the flow of messages through its internal services, Pretemba uses a context management system.List the WS specifications and describe the WS-co ordination and policies with suitable examples.

(CO4) [Comprehension]

PART C

ANSWER ALL THE TWO QUESTIONS   **2 X 15 = 30M**

16. 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

(CO1) [Application]

17. Demonstrate with a neat diagram the division of automation logic into components using SOA.

(CO4) [Application]

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