**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF ENGINEERING

MAKEUP EXAMINATION – JAN 2023

Course Code: CSE265

Course Name: Service Oriented Architecture

Program : IST

Date: 30-JAN-2023

Time:09:30AM – 12:30PM

Max Marks: 100

Weightage: 50 %

Instructions:
  (i) Read the all questions carefully and answer accordingly.
  (ii) All the questions are compulsory.

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries TWO marks.   **(20Qx 2M= 40M)**

1. XML is a text-based markup language derived from _____.   (C.O.No.1)[Knowledge]

2. XML is a markup language that defines set of rules for encoding documents in a format that is _____ .

                                                                                (C.O.No.1)[Knowledge]

3. Write the correct syntax for how to declare the XML version   (C.O.No.1)[Knowledge]

4. Is it easier to process XML than HTML?True or False.   (C.O.No.1)[Knowledge]

5. _____ contains details that prepare an XML processor to parse the XML document.

                                                                                (C.O.No.1)[Knowledge]

6. SOAP is an _____to let applications exchange information over HTTP.   (C.O.No.2)[Knowledge]

7. _____ informs the parser whether the document relies on the information from an external source.   (C.O.No.1)[Knowledge]

8. Write the default value for Standalone.   (C.O.No.1)[Knowledge]

9. Write the Syntax to Declare the XML with no parameters.   (C.O.No.1)[Knowledge]

10. An element declaration specifies _____   (C.O.No.1)[Knowledge]

11. The DTD starts with _____   (C.O.No.1)[Knowledge]

12. Service-oriented computing aims to increase an organization's responsiveness by allowing it to adapt to change more efficiently and effectively. This is known as _____.   (C.O.No.1)[Knowledge]

13. How data in SOA is different from OO Architecture ?   (C.O.No.1)[Knowledge]

14._____acts as service broker between service provider and service consumer.

(C.O.No.1)[Knowledge]

15.Service Autonomy,service statelessness and service loose coupling are the examples of _____

(C.O.No.3)[Knowledge]

16.In order to achieve _____ we have traditionally required _____ projects. With service-orientation, we aim to establish an intrinsic level of _____ within each services.

(C.O.No.3)[Knowledge]

17.When planning a transition toward SOA, we are usually required to balance the _____ goals with the _____ requirements.   (C.O.No.3)[Knowledge]

18.A _____ can be part of a/an _____ which can be assembled from _____ within a/an _____.   (C.O.No.3)[Knowledge]

19.There are two basic types of service-oriented solution logic: _____ and _____

(C.O.No.3)[Knowledge]

20. In WSDL <port type> refers to _____   (C.O.No.3)[Knowledge]

Part B [Thought Provoking Questions]

Answer all the Questions. Each question carries SEVEN marks.   (4Qx7M=28M)

21.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.

(C.O.NO.2)[Comprehension]

22.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 to use a J2EE bridge. Describe how SOA services is supported in J2EE Platform.

(C.O.NO.4)[Comprehension]

23.TLS employs a context management system to coordinate the flow of messages through its internal services. Hence, Give explanation with respect to ws co-ordination process with a neat diagram.
(C.O.NO.4)[Comprehension]

24.RANKON is a Virtual Network Provider wanted to extend a trouble ticketing system as a shared business process to a business partner. Discuss a suitable Service Oriented Architecture which helps RANKON.   (C.O.NO.4)[Comprehension]

Part C [Problem Solving Questions]

Answer all the Questions. Each question carries EIGHT marks.   (4Qx8M=32M)

25 Apply XML to develop an appropriate schema for a "Bank Database" and also discuss the functional requirements considered.   (C.O.No.2) [Application]

26. Sketch the SOAP message structure along with its components.

                                                                                              (C.O.No.3) [Application]
27. Generalise the characteristics of Web service framework with a neat diagram.
                                                                                              (C.O.No.4) [Application]
28. Execute the process of WS-Policy and WS-Addressing with a proper steps.
                                                                                              (C.O.No.4) [Application]