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**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF ENGINEERING

TEST 1

Winter Semester: 2021 - 22
Course Code: CSE 265
Course Name: Service Oriented Architecture
Program & Sem: IST, VI SEM

Date: 25 April 2022
Time: 1:30 PM to 2:30 PM
Max Marks: 30
Weightage: 15%

Instructions:

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

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries 01 mark. (10Qx 1M= 10M)

- 1. Attribute standalone="no" should be included in XML declaration if a document is _____
(C.O.No.1)[Knowledge]
- 2. An element declaration specifies _____
(C.O.No.1)[Knowledge]
- 3. A schema describes _____
(C.O.No.1) [Knowledge]
- 4. _____ element is used only in the context of the text.
(C.O.No.1) [Knowledge]
- 5. State how element can be defined within an XSD
(C.O.No.1) Knowledge]
- 6. XML Schema is commonly known as _____
(C.O.No.1) [Knowledge]
- 7. We can refer to an external DTD by using either system identifiers or public identifiers.
True or False
(C.O.No.1) [Knowledge]
- 8. . In external DTD elements are declared _____ the XML file.
(C.O.No.1) [Knowledge]
- 9. The square brackets [] enclose an optional list of entity declarations called _____
(C.O.No.1) [Knowledge]
- 10. An _____ tells the parser to parse the document from the specified root element.
(C.O.No.1) [Knowledge]

Part B [Thought Provoking Questions]

Answer all the Questions. Each question carries 04 marks. (3Qx4M=12M)

- 11. Explain XML namespaces with example. (C.O.NO.1) [Comprehension]
- 12. With example distinguish internal and external DTD. (C.O.NO.1) [Comprehension]

13. Distinguish between SOA versus Distributed Server Architecture

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

Part C [Problem Solving Questions]

Answer all the Questions. Each question carries 08 marks.

(1Qx8M=8M)

14. Apply XML to develop an appropriate schema for a “student Database” and also discuss the functional requirements considered.

(C.O.No.2) [Application]



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**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF ENGINEERING

TEST 2

Winter Semester: 2021 - 22

Course Code: CSE 265

Course Name: Service Oriented Architecture

Program & Sem: IST & VI SEM

Date: 31st MAY 2022

Time: 01:30 PM - 02:30 PM

Max Marks: 30

Weightage: 15%

Instructions:

(i) *Read all the questions carefully and answer accordingly.*

(ii) *All the questions are compulsory*

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries 01mark.

(10Qx 1M= 10M)

1. The _____ feature is used for locating or storing Web Services. (C.O.No.2)[Knowledge]
2. The _____ act as a service broker between service provider and service consumer (C.O.No.2)[Knowledge]
3. State True or False? SOAP always needs HTTP to travel. (C.O.No.2) [Knowledge]
4. SOA ____ is an extension of the Service Oriented Architecture to respond to events that occur as a result of business processes. (C.O.No.2) [Knowledge]
5. _____ is a collaborative effort where the logic of the business process is pushed out to the members. (C.O.No.3) [Knowledge]
6. How many types of methods are used to combine the web services? (C.O.No.3) [Knowledge]
7. Web applications were developed in order to interact with _____. (C.O.No.3) [Knowledge]
8. In WSDL a <port type> refers to _____. (C.O.No.3) [Knowledge]
9. The use of stateless services tends to _____ the size of service compositions. (C.O.No.3) [Knowledge]
10. Service Autonomy, service statelessness and service loose coupling are the examples of _____. (C.O.No.3) [Knowledge]

Part B [Thought Provoking Questions]

Answer all the questions. Each question carries 04 marks.

(3Qx4M=12M)

11. Explain primitive and complex MEP patterns supported by WSDL 1.0 (C.O.NO.2) [Comprehension]

12. Describe web service Choreography interface with example.

(C.O.NO.3) [Comprehension]

13. Explain the WS-BPEL process definition structure.

(C.O.NO.3) [Comprehension]

Part C [Problem Solving Questions]

Answer the questions. The question carries 08 marks.

(1Qx8M=8M)

14. With a neat diagram explain the SOAP message structure along with its components.

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



**PRESIDENCY UNIVERSITY
BENGALURU
SCHOOL OF ENGINEERING**

ENDTERM EXAM

Winter Semester: 2021 - 22

Course Code: CSE 265

Course Name: Service Oriented Architecture

Program & Sem: B.Tech. (IST) & VI SEM

Date: 28th June 2022

Time: 9:30 AM to 12:30 PM

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]

