



# SYED AMMAL ENGINEERING COLLEGE

(Approved by the AICTE, New Delhi, Govt. of Tamilnadu and Affiliated to Anna University, Chennai)

Established in 1998 - An ISO 9001:2008 Certified Institution

**Computer Science and Engineering**



## ***IT6801 - SERVICE ORIENTED ARCHITECTURE***

### **2 MARK QUESTION**

#### **UNIT-I**

1. What is XML?
2. What is the main disadvantage of HTML?
3. What are the uses of XML?
4. What is the emergence of XML?
5. What are the major XML news formats?
6. What are markup and text in an XML document?
7. Write the rules of XML declaration
8. Write the rules of XML element
9. Write on Attributes
10. What are the revolutions of XML?
11. What is SOA?
12. Define Stateless service
13. Define Stateful service
14. What the constraints introduced by the SOAP web services?
15. Write on Tags and elements?
16. What are attribute name and attribute value?
17. What are the uses of XML?
18. What are the various features of XML?
19. Different between XML and HTML
20. What are the three waves for XML development?
21. List out the advantages of XML.
22. List out the XML structure.
23. What is physical structure?
24. List out the Physical structure.
25. What is XML declaration?
26. What is Encoding?
27. What is standalone declaration?
28. Define Document Type Declaration
29. List out the various logical structure of an XML document.
30. Define Elements

### **16 MARK QUESTION**

1. Describe in detail about XML document Structure.
2. Examine in detail about DTD.
3. Describe in detail about XML schema.
4. Describe in detail about XFILES



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5. Give an XML program for storing book details
6. Discuss in detail about Form Navigation with an example
7. Summarize in detail the steps to display XML data on browser
8. Discuss about XML and how to Create HTML Documents with the help of XML
9. Illustrate how to transform XML documents to other forms
10. Examine what is the main role of XPath in selecting the XML Data
11. Explain in detail how to represent data types in XML Schema with example.
12. (i) Differentiate between internal and external DTD .(8)  
(ii) Classify the architecture of the X-Files application .(8)
13. Deduce how to create a XML DTD for displaying student details
14. Develop a program for Library Management System using XML Schema

## UNIT-II

### 2 MARK QUESTION

1. What is structured information?
2. Define Name space
3. Define expanded name space
4. Define qualified name space
5. Define Name space prefix
6. Write on Declaring name space
7. Define XML schema
8. Define Schema component
9. What is schema validity assessment?
10. Define valid
11. Define assessment
12. Define primary component
13. Define secondary component
14. Define Target Namespace
15. Define Helper component
16. What is XSL?



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17. What are the different template patterns?
18. Write on Template rule body
19. What are the various data types available in XML SCHEMA?
20. List out the type of Namespace.
21. Define Infoset
22. What is mean by RDF?
23. Define XLINK.
24. Define Voice XML.
25. List out the three part of XSL.
26. What is mean by Uniform Resource Identifier (URI)?
27. List out the Schema Components.
28. Define Schema-validity.
29. Define Schema.
30. List out the type of DTD

### 16 MARK QUESTION

1. Describe in detail about parsing XML using DOM.
2. Examine in detail about parsing XML using SAX.
3. Describe in detail about XSLT
4. What is XSL-FO? Explain in detail
5. What are steps in modeling database in XML? Discuss each step in detail.
6. Describe in detail about various XSL tags with an example
7. Give an example to demonstrates the uses of DefaultHandler to SAXparser and XML document to performs mapping of xml to model class and generate list of objects.
8. Demonstrate how the template based Transformation achieved with the help of XSLT
9. Show the difference between DOM and SAX XML Parser XSL FO (XSLFO) example with font attributes introduced above Borders, Padding, and Background
10. What way a namespace in the XML document or the schema document affects validation? Illustrate it with an example
11. (i) Explain in detail about DOM Parser(8)  
(ii) Explain the XML representation of a relational database with example of a single database with two table.(8)



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12. (i) Demonstrate in detail about various XSL tags with an example. (8)
- (ii) Point out the DOM XML Parser with Example how to get the node by "name", and display the value. (8)
13. Explain the different possibility of writing XML processing rules with XSLT.
14. Create a code to populate an Employee objects to DOM -parser using an xml content.

### UNIT-III

#### 2 MARK QUESTION

1. What is Service Oriented Architecture?
2. Define Contemporary SOA.
3. List out some characteristics of Contemporary SOA.
4. What are the benefits of SOA?
5. What are the common pitfalls of adopting SOA?
6. What are the requirements is needed to fill QoS gaps between contemporary and Primitive SOA?
7. What is Autonomous Principle?
8. List out the different levels of Autonomy.
9. What is Runtime Autonomy?
10. What is Design time autonomy?
11. Expand UDDI.
12. What are the design characteristics required to facilitate interoperability in contemporary SOA?
13. How is loose coupling concept achieved in SOA?
14. What is referred as Organizational Agility?
15. What is Architecture?
16. What is application architecture?
17. What is enterprise architecture?
18. What is Single-tier client-server architecture?
19. List out the primary characteristics of the two tier client server architecture?
20. What is multi-tier client-server architectures?



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21. List out the types of communications of mainframe systems?
22. Define synchronous communication.
23. Define asynchronous communication.
24. List out the types of service autonomy?
25. What are the key benefits of service reuse?
26. State Separation of concerns.
27. What are the parts of automation logic?
28. What are the issues that are raised in the client-server and the distributed Internet architecture?
29. What is the use of RPC?
30. Write down the advantage of RPC?

### 16 MARK QUESTION

1. Compare SOA to Client-Server Architecture
2. Explain in detail the principles of Service Orientation?
3. Explain Distributed Internet Architecture and compare with SOA
4. List the characteristics of Contemporary SOA.
5. Discuss about three Service layers in detail.
6. Explain about Coordination in detail
7. What are the components of soa? How do they inter-relate?
8. Explain briefly the Client-Server & Distributed Architecture
9. Explain briefly about primitive SOA
10. Compare and contrast Service Orientation with Object Orientation
11. Explain in detail the Atomic Transactions
12. Explain about service layer configuration scenarios.

### UNIT-IV

### 2 MARK QUESTION

1. Define Web services
2. Define SOA
3. List out the characteristic of Web services.
4. What are the uses of Web services?



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5. What are the three roles of Web service?
6. Define client
7. Define Service
8. Define Broker
9. What are the standard protocols used in web service?
10. Define WSDL
11. Define UDDI
12. What are the three components used in UDDI?
13. List out the UDDI register
14. What are the major elements used in WSDL?
15. Define the structure of WSDL
16. Define WSDL Messages
17. Define WSDL Type
18. Define WSDL Binding
19. Define ebXML
20. List out the layer of data specification in ebXML
21. What is XPointer?
22. Where can qualified names appear?
23. Define .Net
24. Define .NET framework
25. What is the .NET architecture includes several technology components.
26. Define J2EE
27. What are the technical architecture consist in ebXML technology?
28. Define Web Services Caveats
29. List out the Web Services Caveats
30. List out the .NET Pros

### **16 MARK QUESTION**

1. Explain the importance of messaging with SOAP and message exchange patterns in web services
2. Explain Message Exchange Patterns in detail.



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3. Explain about service layer abstraction and orchestration service layer
4. Explain Service descriptions with WSDL in detail
5. Explain Messaging with SOAP in detail
6. Explain Orchestration in detail
7. Describe the process of messaging with SOAP and Atomic transaction.
8. Explain briefly about technical requirements for Orchestration and Choreography
9. Briefly explain about WSDL & SOAP basics in service oriented design
10. Explain entity-centric and task-centric business service design in detail
11. Explain the basics of web services description language in detail.
12. i. Explain UDDI in detail (8)  
ii. Sketch the anatomy of SOAP message(8)

## UNIT-V

### 2 MARK QUESTION

1. What are the basic security requirements for e-business?
2. Define Confidentiality
3. Define Authentication
4. Define Integrity
5. List out the type of cryptography
6. What do you mean by Single key Cryptography?
7. What do you mean by Public key Cryptographic?
8. Define Signatures
9. What are the key to be use in validate the signature?
10. Define Transforms
11. Define Digest method
12. Define Digest value
14. List out the XML security technology.
15. What is XML encryption?
16. List out the steps in XML encryption.
17. Define XML Digital Signature.
18. Define XKMS



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19. List out the specification of XKMS.
20. What are the three pillars of secure E-Commerce?

### 16 MARK QUESTION

1. Explain the following in detail
  - (i) Service Roles .(8)
  - (ii) Service Models. (8)
2. List out the objectives of service oriented design.(6)
  - ii). Explain about service oriented design process.(10)
3. i) Discuss about entity-centric business service design .(8)
  - ii) List out the steps for composing SOA . (8)
4. Describe in detail about service modeling guidelines.
5. Summarize business-centric SOA in detail.
6. Describe application service design in a step by step process.
7. Describe Root element and Series of Common child element of WSBPEL process definition
8. Write down the syntax of the following with example  
The process element The partnerLinks and partnerLink The variable getVariableProperty and getVariableData sequence and invoke
9. Discuss WS-BPEL Language basics in detail.
10. Write short notes on WS-coordination overview.
11. Explain briefly about WS-choreography model description.
12. Explain about WS-Security.
13. Discuss about typical J2EE service provider
14. i. Explain SOA platform.(6)
  - ii. Describe the APIs in J2EE which is used to build SOA. (10)