

Anekant Education Society's  
**Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati**  
(Autonomous)  
Department of Computer Science

---

**Class : M.Sc.(Computer Science) – II**  
**Paper Title : Web Services (C)**

**Semester : III**  
**Paper Code : COMP5303**

---

**Question Bank**

**Type of Question : Objective Questions**

1. The basic Web Services platform is combination of \_\_\_\_\_ and \_\_\_\_\_
  - A. CSS + HTTP
  - B. XML + HTML
  - C. XML + HTTP
  - D. CSS + JAVA
  
2. Web services are self-contained and self-describing !
  - A. False
  - B. True
  - C. Partially True
  - D. None
  
3. \_\_\_\_\_ is the basis for Web services.
  - A. PHP
  - B. CSS
  - C. CGI
  - D. XML
  
4. Web services can be discovered using \_\_\_\_\_.
  - A. UDDII
  - B. UDDI
  - C. UDDDI
  - D. UDII
  
5. Which of the following is considered as Web Service Platform Elements ?
  - A. SOAP
  - B. UDDI
  - C. WSDL
  - D. All of the above

6. SOAP is used to transfer the \_\_\_\_\_
- A. Control
  - B. Output
  - C. Data
  - D. None of the above
7. The Web services cannot offer the application components like:
- A. Currency Conversion
  - B. Weather Reports
  - C. Language Translation
  - D. Web Browsers
8. WSDL Stands for \_\_\_\_\_.
- A. Web Services Description Language
  - B. Web Services Design Language
  - C. Web Services Deployment Language
  - D. None of the Above
9. SOAP is a lightweight \_\_\_\_\_ based protocol .
- A. XHTML
  - B. XML
  - C. XSL
  - D. XSLT
10. \_\_\_\_\_ is a type of cloud computing, which is integrated and can be arrangement of two or more cloud servers.
- A. Private Cloud
  - B. Public Cloud
  - C. Community Cloud
  - D. Hybrid Cloud
11. \_\_\_\_\_ is the “creation of a virtual version of something, such as a server, a desktop, a storage device, an operating system or network resources.
- A. Virtualization
  - B. Cloud Computing
  - C. API Creation
  - D. Web Services
12. \_\_\_\_\_ is a mandatory element that defines the start and end of the messages.
- A. Header
  - B. Envelope
  - C. Body
  - D. Fault

13. \_\_\_\_\_ acts as a broker providing a facility to publish and store the description web services registered by the service providers.
- A. Service Container
  - B. Service Delivery
  - C. Service Registry
  - D. All of the above.
14. \_\_\_\_\_ is the capability to service multiple organizations (clients) from a shared , common hosting environment by sharing the same physical instance and version of the cloud application.
- A. Multi-tenancy
  - B. Interoperability
  - C. Scalability
  - D. Integrity
15. A Virtual Machine Monitor, also called \_\_\_\_\_, is a piece of software or hardware that run's on the top of the host's hardware.
- A. Supervisor
  - B. Hypervisor
  - C. Cloud Computing
  - D. Web Services
16. \_\_\_\_\_ is an architectural style for distributed hyper media systems such as the World Wide Web.
- A. Reorganization Source Transfer
  - B. Representational Source Transfer
  - C. Reorganization State Transfer
  - D. Representational State Transfer
17. \_\_\_\_\_ defines a set of encoding for mapping the instances of the application-specific data types to XML elements.
- A. SOAP Envelope
  - B. SOAP Transport
  - C. SOAP Encoding
  - D. SOAP RPC Conventions
18. A service oriented architecture is essentially a collection of \_\_\_\_\_.
- A. Services
  - B. Protocols
  - C. Functions
  - D. None
19. The \_\_\_\_\_ communication model defines a loosely coupled and document driven communication.
- A. RPC - Based
  - B. Messaging - Based
  - C. Protocol - Based
  - D. Function – Based

20. PaaS stands for \_\_\_\_\_
- A. Process as a Service
  - B. Program as a Service
  - C. Platform as a Service
  - D. None
21. IaaS stands for \_\_\_\_\_
- A. Image as a Service
  - B. Internet as a Service
  - C. Information as a Service
  - D. Infrastructure as a Service
22. SaaS stands for \_\_\_\_\_
- A. Set as a Service
  - B. Software as a Service
  - C. Server as a Service
  - D. All of the above
23. \_\_\_\_\_ enables us to publish and test our internal e-business applications in a secure private environment.
- A. Private Registry
  - B. Public Registry
  - C. Hybrid Registry
  - D. None of the above
24. \_\_\_\_\_ is a collection of peer directories that contain information about businesses and services.
- A. Private Registry
  - B. Public Registry
  - C. Hybrid Registry
  - D. None of the above
25. WSDL defines following binding extensions
- A. SOAP Binding
  - B. HTTP GET and POST Binding
  - C. MIME Binding
  - D. All of the above
26. Which of these are not the elements WSDL ?
- A. Types
  - B. Port Types
  - C. Service
  - D. Destination

27. UDDI is used for listing what \_\_\_\_\_ are available.
- A. Data
  - B. Control
  - C. Services
  - D. Program
28. Web Services are \_\_\_\_\_.
- A. Application Components
  - B. Application Designing Tools
  - C. Application IDE
  - D. All of the Above
29. Which of the following is not a core role in Web Service architecture?
- A. Service Provider
  - B. Service Locator
  - C. Service Requestor
  - D. Service Registry
30. The Service provider provides a central place where developers can publish new services or find existing ones.
- A. True
  - B. False
  - C. Partially True
  - D. Don't know
31. Is XML-RPC is language-dependent?
- A. True
  - B. False
  - C. Partially True
  - D. Don't Know
32. Which of the following component of Web service describes interfaces to web services?
- A. UDDI
  - B. WSDL
  - C. SOAP
  - D. None of the Above
33. XML Messaging is responsible for encoding messages in a common XML format so that messages can be understood at either end.
- A. True
  - B. False
  - C. Partially True
  - D. None of the Above

34. A consumer of a web service is not tied to that web service directly.
- A. True
  - B. False
  - C. Partially True
  - D. None or the Above
35. The SOAP fault model requires that all SOAP-Specific and application specific faults be reported using a special-purpose element called \_\_\_\_\_
- A. Env : Error
  - B. Env : Exception
  - C. Env : Fault
  - D. All of the Above
36. RPC style web services are \_\_\_\_\_ model of communication between client and service provider.
- A. Synchronous model
  - B. Asynchronous model
  - C. Both
  - D. None
37. Document style web services are \_\_\_\_\_ model of communication between client and service provider.
- A. Synchronous model
  - B. Asynchronous model
  - C. Both
  - D. None
38. \_\_\_\_\_ is a type of cloud hosting in which the setup is mutually shared between many organizations that belong to a particular community.
- A. Public Cloud
  - B. Private Cloud
  - C. Hybrid Cloud
  - D. Community Cloud
39. \_\_\_\_\_ is a full virtualization solution for Linux on x86 hardware containing virtualization extensions.
- A. Programming based Virtual Machine
  - B. Xen based Virtual Machine
  - C. Kernel based Virtual Machine
  - D. None of the Above
40. \_\_\_\_\_ provide programmatic access to content.
- A. Simple Trading Services
  - B. Pure Content Services
  - C. Simple Syndication Services
  - D. None of the Above.

41. A service that is actively processing or retaining state data is classified as being \_\_\_\_\_.
- A. Stateless
  - B. Stateful
  - C. Granular
  - D. Non-granular
42. \_\_\_\_\_ are value added information web services that purport to plug into commerce sites of various types.
- A. Pure Content Services
  - B. Simple Trading Services
  - C. Simple Syndication Services
  - D. All of the Above
43. The encodingStyle attribute in SOAP header is used to define the \_\_\_\_\_ used in the document.
- A. Encoding
  - B. Role
  - C. Style
  - D. Data Type
44. SOAP can be implemented as \_\_\_\_\_
- A. Client Application
  - B. Server Application
  - C. Client and Server Application
  - D. None
45. \_\_\_\_\_ represents an organization or group of people responsible for set of services.
- A. Company
  - B. Business Entity
  - C. tModel
  - D. All of the Above
46. Which of the following is not example of SaaS ?
- A. Cisco WebEx
  - B. Salesforce
  - C. Digital Ocean
  - D. Google Workspace
47. Which of the following is not example of PaaS ?
- A. GoToMeeting
  - B. Windows Azure
  - C. Apache Strato's
  - D. AWS Elastic BeanStalk
48. Which of the following is not example of IaaS ?
- A. Amazon Web Services
  - B. Heroku
  - C. Google Compute Engine
  - D. Microsoft Azure

49. \_\_\_\_\_ element must be the root element of all WSDL documents.
- A. <definitions>
  - B. <service>
  - C. <message>
  - D. <binding>
50. Which of the following is the Type 2 Hypervisor?
- A. KVM
  - B. Xen
  - C. VMware Workstation
  - D. All

**Type of Questions : Answer in One / Two Sentence**

1. What are Web Services?
2. Define Application Service Provider.
3. Define Service Granularity.
4. Define Service Synchronicity.
5. Define Representational State Transfer.
6. What is Service Oriented Architecture?
7. What is XML?
8. What is SOAP?
9. What is WSDL?
10. What is UDDI?
11. What are the communication styles that SOAP supports?
12. Describe the parts of the web services <portType> element?
13. Describe the parts of the web services <binding> element?
14. Describe the parts of the web services <defination> element?
15. What is Service Discovery?
16. What is Cloud Computing?
17. Define Multi-tenancy.
18. What is hypervisor?
19. State the different cloud deployment models.
20. Define Virtualization?
21. What is Service Container?
22. What is Service Registry?
23. What is Service Delivery?
24. What is role attribute in SOAP Header?
25. What is relay attribute in SOAP Header?
26. What is mustUnderstand attribute in SOAP Header?
27. What is encodingStyle attribute in SOAP Header?
28. Give examples of Software as a Service (SaaS).
29. Give examples of Platform as a Service (PaaS)
30. Give examples of Infrastructure as a Service (IaaS).



## **Type of Questions : Short Notes**

1. Write a note on Quality of Service(QoS).
2. Write a note on Layers in SOA.
3. Write a note on Restful Services.
4. Write a note on Web Service Interoperability Organization.
5. Write a note on Web Service Protocol Stack.
6. Write a note on SOAP.
7. Write a note on WSDL.
8. Write a note on UDDI.
9. Write a note on SOAP communication model.
10. Write a note on Web Service Life Cycle.
11. Write a note on patterns of operations that WSDL supports.
12. Write a note on WSDL tools.
13. Write a note on WSDL bindings.
14. Write a note on Service Discovery.
15. Write a note on Software as a Service(SaaS).
16. Write a note on Platform as a Service(PaaS).
17. Write a note on Infrastructure as a Service(IaaS).
18. Write a note on KVM features.
19. Write a note on Xen features.
20. Write a note on Cloud Specific Security Risks.

## **Type of Questions : Short Answer Questions**

1. Explain the Different types of Web Services.
2. What are the Characteristics of Web Services?
3. What is simple or informational service? Give Examples.
4. Describe functional and non-functional properties of web services.
5. Differentiate between synchronous and asynchronous services.
6. Explain behavioral characteristics of web services.
7. Explain RPC - Based Communication model.
8. Explain Messaging - Based Communication model.
9. What is the purpose of service provider in web service architecture.
10. Give advantages of SOAP.
11. Give disadvantages of SOAP.
12. Explain the specific design criteria that SOAP wire protocol must meet?
13. How errors are handled in SOAP?
14. State uses of UDDI registry.
15. State limitations of WSDL.
16. Explain WSDL document structure.
17. State limitations of UDDI.
18. State essential characteristics of the Cloud.
19. Differentiate between multi-tenancy and virtualization.
20. Explain the different types of Hypervisor.

## **Type of Questions: Long Answer Questions**

1. Explain Service Oriented Architecture in detail.
2. Explain Web Service Implementation Life Cycle.
3. What are the basic steps of implementing Web Services.
4. Explain core building blocks of web services.
5. How distributed application processing with SOAP can be achieved?
6. Explain the structure of SOAP message in detail.
7. Explain key structural elements in WSDL document.
8. Explain each UDDI data structures in detail.
9. Explain cloud deployment models in detail.
10. Explain approaches to the multi-tenancy.