

Duration: 90 Minutes

Max Marks :50

Section-I

Marks : 20

1. Which of the following are common characteristics of a web service?
 1. A text-based data interchange format
 2. A peer-to-peer architecture
 3. Support for the Java Message Service (JMS) API
 4. A client accessible service description

2. An XML schema simpleType may contain
 - a. sequence
 - b. choice
 - c. restriction
 - d. enumeration

3. A request to a SOAP web service endpoint must always be transferred using the HTTP protocol.
 - A. True
 - B. False

4. The definitions element in a completed WSDL should contain which sequence of elements?
 - A. types, message, portType, binding, service
 - B. Envelope, Header, Body
 - C. sequence, choice, enumeration, restriction
 - D. types, parts, ports, binding, location

5. The methods available in a JAX-WS-generated web service client are determined by:
 - A. The imported WSDL
 - B. The service endpoint
 - C. JAXB binding customizations
 - D. @WebServiceRef annotation attributes

6. Which HTTP status code range represents client errors?
 - A. 1xx
 - B. 2xx
 - C. 3xx
 - D. 4xx
 - E. 5xx

7. Which HTTP methods are idempotent?
 - A. GET
 - B. PUT
 - C. DELETE
 - D. POST
8. Which Jersey class represents a REST resource that is located at a URL?
 - A. Client
 - B. URL
 - C. WebResource
 - D. ClientResponse
9. Public methods in an endpoint must be annotated with @WebMethod in order to be exposed to clients.
 - A. True
 - B. False
10. When using a bottom-up development approach to create SOAP endpoints you create the WSDL file first.
 - A. True
 - B. False
11. When using a top-down development approach to create SOAP endpoints the resulting method names are determined solely by the WSDL file.
 - A. True
 - B. False
12. To generate the service endpoint interface from a WSDL you would use:
 - A. apt
 - B. javac
 - C. wsgen
 - D. wsimport
13. What are the three categories of methods that might be called to handle a HTTP GET by a JAX-RS implementation?
 - A. Resource
 - B. Nested-Resource
 - C. Sub-Resource
 - D. Factory
 - E. Locator
14. A sub-resource locator method is annotated with one or more HTTP method annotations such as @GET.
 - A. True
 - B. False
15. A root resource class must be annotated with:
 - A. @Produces
 - B. @GET
 - C. @WebService
 - D. @Path

- 16.** In a SOAP message, a <S:Fault> element will always contain:
- A. <faultcode>
 - B. <faultstring>
 - C. <faultactor>
 - D. <detail>
- 17.** Confidentiality can be enabled by using the web.xml file.
- A. True
 - B. False
- 18.** A <security-constraint> that is missing a <http-method> element will not apply to any HTTP methods.
- A. True
 - B. False
- 19.** All JAX-WS implementations must support WS-Security extensions.
- A. True
 - B. False
- 20.** Which methods are available in a JAX-RS SecurityContext?
- A. getUserPrincipal()
 - B. isUserInRole("role")
 - C. getCallerPrincipal()
 - D. isCallerInRole("role")

Section-II

Marks: 30

- 1.** What is the importance of Using XML Schemas in any application development.
Create XML Schema to validate Employee Details.
- 2.** Explain the benefits of JAXB. Unmarshall XML data with JAXB and Marshall XML data with JAXB.
- 3.** What is SOAP Based WebServices? Explain the need of RESTful Web Services in Application Development.
- 4.** Create a sample application for Airline Reservation Application Representing SOAP Based Web Services both the Approaches [Top Down and Bottom Up]
- 5.** Create an application for RESTful Web Services for Airline Reservation Application Representing RESTful Webservices [Both ServerSide and ClientSide (Using Jersey) Implementation.
- 6.** Explain Jersey Client API. Explore Different Types of Parameter Passing in RESTful Webservices.