## CORE\_JAVA\_DXC\_2022\_003

Employee Id:	
Duration:1.5 Hrs	Max. Marks 60

#### **Instructions:**

- 1. First 5 minutes are provided to read & understand the test paper and 5 minutes for recheck whatever code we have written.
- 2. Question Part1 and Part2 both have to complete.
- 3. Create a project with Collection followed by your first name and employee ID.
- 4. Take care of Plagiarism
- 5. Referring Java Documentation is allowed.
- 6. Marks will only be awarded to working functionalities

**Ouestion Part1** 

### Q1. Multiple Choice Questions:

### Q1.1 Select correct definition of a WSDL's <service> element.

- A. Collection of related endpoints.
- B. Contains data type definitions using type system.
- C. A single endpoint defined as a combination of a binding and a network address.
- D. Set of operations supported by one or more Endpoints.
- E. IndexOutOfBoundsException

## Q1. Select statements which are true for SOAP. (Any 3)

- A. SOAP Transport protocol used by Web Services
- B. SOAP is specification for exchanging structured information
- C. SOAP relies on other transport protocols like http, ftp for data transmission
- D. SOAP uses xml to format data
- E. SOAP uses json to format data

# Q1.3 you wants to create JAX-WS Web service client for Calculator service. Service is implemented in java You have given a WSDL file for service. What is correct statement to be able to create WS client from WSDL. (Select one).

- A. Use JAXP to parse and generate the java classes from WSDL. Then create Service Endpoint Interface (SEI) from factory classes. Then use SEI to call WS.
- B. Use wsgen to generate SEI from WSDL and then invoke SEI's methods to call WS.
- C. Use wsimport to generate SEI from WSDL and then invoke SEI's methods to call WS.
- D. We cannot consume a web service created in C++ on java.

## Q1.4 you have created one web service which is deployed in web container, now we need to support WS client session in our service. However we have to expire a session in case user session is inactive for 10 minutes. Which file we need to modify for this requirement.

- A. security.xml
- B. sun-web.xml
- C. web.xml
- D. webservices.xml

## Q1.5 A web service contract is described using

- a) Web Services Description Language
- b) Web Services Description
- c) All of the mentioned
- d) none of the mentioned

### Q1.6 Please select incorrect statement among following statements.

- A. Confidentiality encrypting of SOAP messages
- B. Integrity signing of SOAP messages
- C. Authentication attach security tokens to SOAP messages
- D. Non-repudiation signing of SOAP messages
- E. Authorization attach identity tokens to SOAP message

```
Q1.7 Which of the following code snippet matches to this WSDL portType element?
<portType name="ElementsTableImpl">
 <operation name="getTable">
  <input message="tns:getTable" />
  <output message="tns:getTableResponse" />
  <fault message="tns:WsException" name="WsException" />
 </operation>
</portType>
 A. @WebService
  public class ElementsTableImpl {
   public SimpleElementsTable getElementsTable(Integer number) throws WsException {
     SimpleElementsTable table = new SimpleElementsTable (number);
         return table;
    }
   }
 B. @WebService
   public class ElementsTableImpl {
    public SimpleElementsTable getTable(Integer number) {
     SimpleElementsTable table = new SimpleElementsTable(number);
     return table;
    }
 C. @WebService (endpointInterface=""ElementsTableService"")
   public class ElementsTableImpl {
    public SimpleElementsTable getTable(Integer number) throws WsException {
     SimpleElementsTable table = new SimpleElementsTable(number);
     return table;
   }
 D. @WebService
  public class ElementsTableImpl {
    public SimpleElementsTable getTable(Integer number) throws WsException {
     SimpleElementsTable table = new SimpleElementsTable(number);
     return table;
    }
   }
   Q1.8 Which component of Web Services acts as a directory?
      A. UDDI
      B. XML
      C. SOAP
      D. WSIL
      E. WSDL
   Q1.9 Web services components are written in which Markup Language?
     A. SGML
     B. HTML
     C. XHTML
      D. XML
      E. DTD
   Spring-WS supports annotating an arbitrary class as a service endpoint by:-
```

a) @Endpointb) @Endc) @Point

d) None of the mentioned

## **Question Part2**

- 1. Write a soap based webservice which will take input as first name, last name and surname and make it as short name. For eg. First Name: Sanjay, Last Name: Kumar and Surname: Chandel. Output should product by the webservice is SKChandel.
- 2. Create a RESTFul Webservice for following:-
- 1. Convert total number of seconds into Hours, Minutes and Seconds. For eg 3680 seconds could eompiled by skehandellange eompiled eompiled by skehandellange eompiled eom produce output as 1Hour 1 Minutes and 20 Seconds.
  - 2. Convert Celsius to Fahrenheit (Fahrenheit = (9/5) \* Celsius + 32).