✓ **Congratulations! You passed!**

Grade received 100%   **Latest Submission Grade** 100%   **To pass** 70% or higher

Go to next item

1.   1 / 1 point

You are probably using the internet to do some of your personal banking. There is a page that shows your accounts and their balances, often called something like "Account Summary" or "Account Overview." You must click on an account to begin managing it. Which type of web page is this?

○ web app

◉ dynamic web page

○ web service

○ static web page

✓ **Correct**

Correct! It queries the information it needs and builds the page on the fly from a template.

2. Another web page allows interacting with a spreadsheet in a browser. You can enter in values, sum them up,   1 / 1 point
perform operations on them, format them, etc. What type of web page is this?

○ dynamic web page

○ static web page

◉ web app

○ web service

✓ **Correct**
Correct! Web apps are very similar to desktop apps except they are accessed through the browser and stored in a remote web server.

3. Consider the two statements. Choose the one correct option.   1 / 1 point

1. JSON is a markup language

2. JSON can easily be converted into a Javascript object

○ Only the first statement is correct

◉ Only the second statement is correct

○ Both statements are correct

○ Neither statement is correct

✓ **Correct**
Correct! Javacript Object Notation can easily be converted into a Javascript object, and vice versa.

4. Which of these is **NOT** a basic standard of the World Wide Web?   1 / 1 point

◉ FTP

○ HTTP

○ TCP

○ URL

✓ **Correct**
Correct! The World Wide Web is that part of the internet that is characterized by the interlinking of hypertext documents. FTP also uses the internet, but is instead focused on discrete files.

5. There is an HTTP method that allows you to send, create or update a resource, but allows the server to decide its location and identity. Which HTTP method is this?

○ SEND

◉ POST

○ GET

○ PUT

> ✓ **Correct**
> Correct! As opposed to the PUT method, the web server can decide where to create or update the resource in question.

6. Which of these is often used to add dynamic content to a web page?

○ CSS

○ HTML DOM

○ HTML

◉ Javascript

> ✓ **Correct**
> Correct! Using Javascript and the <script> tag in your HTML document can allow you to quickly add some scripted functionality to be processed client-side

7. What are the three high-level components involved in a remote procedural call?

○ IDL source code, IDL compiler, interface headers

○ client stub, compiler, server stub

◉ client, server, interface definition language

○ marshal, client, server

> ✓ **Correct**
> Correct! The client and server send and receive communication, but the IDL defines what procedures are available and how they are formatted.

8. The process of establishing a connection between the client stub and server stub is called…

◉ binding

○ handshaking

○ interfacing

○ marshalling

> ✓ **Correct**
> Correct! This process is called binding, and we will be using the same term with a similar meaning in future lessons as well.

9. What are the advantages of Common Object Request Broker Architecture (CORBA)? Choose the **two correct** answers.

☐ Method calls can be treated locally or remotely

☑ Objects are essentially independent of their physical or virtual location.

> ✓ **Correct**
> Correct! Objects can be accessed wherever they are in CORBA

☑ It allows for object-oriented paradigms in distributed computing

> ✓ **Correct**
> Correct. This is a chief advantage of CORBA and the reason it was developed.

☐ Dynamic binding is simple

10. Which of these are desirable characteristics of a web service? Select **the three correct** answers.

☑ platform-independent

> ✓ **Correct**
> Correct! A key part of delivering services over the web is dealing with the many different platforms that access the web.

☑ composable

> **✓ Correct**
> Correct! Web services should be composable. In other words, they can be combined and offered as new services.

☑ modular

> **✓ Correct**
> Correct! It is important for web services to be modular, and this is built into the specifications and standards that make them up.

☐ simple

11. Which of these responsibilities does the client stub have in a middleware-based architecture that uses RPC? Choose the **three correct** answers. `1 / 1 point`

☐ Invoking the server application directly

☑ Invoking the remote procedure call over the network

> **✓ Correct**
> Correct! Just as it opens up a connection with the server, it also send a request to it.

☑ Establishing a connection with the server

> **✓ Correct**
> Correct! The client stub opens up a connection with the server.

☑ Formatting and encoding data into standardized messages

> **✓ Correct**
> Correct! This is called marshalling.

12. What is the main difference between a web service and a web application? `1 / 1 point`

○ Web services are mostly meant for business applications

○ Web services are simpler

○ Web applications dynamically generate content

◉ Web applications are presented through a browser

> **✓ Correct**
> Correct! A web application is just like a desktop application but presented through a browser with most of the logic executed remotely. Web services are not presented through a browser.