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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?

◉ dynamic web page

○ web service

○ web app

○ 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   1 / 1 point
values, sum them up, perform operations on them, format them, etc. What type of web
page is this?

◉ web app
○ web service
○ dynamic web page
○ static web page

⊘ 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 second statement is correct
    ○ Both statements are correct
    ○ Neither statement is correct
    ○ Only the first 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

    ○ TCP
    ○ URL
    ○ HTTP
    ◉ FTP

    ⊘ 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? 1 / 1 point

    ◉ POST
    ○ SEND
    ○ PUT
    ○ GET

    ⊘ 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?   1 / 1 point

    ○ CSS
    ○ HTML DOM
    ● Javascript
    ○ HTML

    ✓ 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?   1 / 1 point

    ○ marshal, client, server
    ○ IDL source code, IDL compiler, interface headers
    ○ client stub, compiler, server stub
    ● client, server, interface definition language

    ✓ 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   1 / 1 point
    called…

    ● binding
    ○ marshalling
    ○ handshaking
    ○ interfacing

    ✓ 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)?   1 / 1 point
    Choose the two correct answers.

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

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

☐ Method calls can be treated locally or remotely

☐ Dynamic binding is simple

☑ It allows for object-oriented paradigms in distributed computing

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

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10. Which of these are desirable characteristics of a web service? Select the three correct answers.   1 / 1 point

☑ 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

☑ composable

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

☑ platform-independent

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

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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 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.

☑ Formatting and encoding data into standardized messages

> ⊘ Correct
> Correct! This is called marshalling.

☑ Establishing a connection with the server

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

☐ Invoking the server application directly

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

◉ Web applications are presented through a browser
◯ Web services are mostly meant for business applications
◯ Web services are simpler
◯ Web applications dynamically generate content

✓ 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.