Marlon is creating a web page. It's a simple page, which has a list of his current projects, a short bio about himself, and some GIF images of some of those same projects that he uploaded to the server himself. What type of web page is this?

1 point

○ web app

○ web service

⦿ static web page

○ dynamic web page

Which of these examples is a **web application**?

1 point

○ online poker

○ a website conducting a survey

○ a blog

⦿ an online shopping platform

Which of these formats can be used to express and structure content to be sent over the internet? Choose the **three correct** answers:

1 point

☑ JSON

☑ XML

☐ CSS

☑ HTML

4. What are the essential parts of an HTTP request? Choose the **three correct** answers.

- ☑ a blank space
- ☐ a message body
- ☑ request-line
- ☑ headers

Which of these are essential parts of an HTTP server response? Choose the **two correct** answers.

- ☐ a message body
- ☐ response-line
- ☑ status-line
- ☑ headers

Consider the following two statements about Javascript. Choose the one correct option.

1. It can allow you to generate content within the browser

2. A Javascript file must be sent in addition to an HTML file

- ◯ Only the first statement is true
- ⬤ Only the second statement is true
- ◯ Both statements are true
- ◯ Neither statement is true

7. What is the term for the action that converts the parameters into a standardized message on the client side?

1 point

- ⦿ marshalling
- ◯ blocking
- ◯ binding
- ◯ invocation

. Consider the following two statements about middleware and RPC. Choose the one correct option.

1 point

1. RPC (Remote Procedure Call) is a form of middleware

2. The IDL (Interface Definition Language) is responsible for generating stubs

- ◯ Only the first statement is true
- ◯ Only the second statement is true
- ⦿ Both statements are true
- ◯ Neither statement is true

Which of these can be found in Common Object Request Broker Architecture (CORBA)? Choose the **three correct** answers.

1 point

- ☐ client and server stubs
- ☑ facilities
- ☑ interface definition language
- ☑ object request broker

What are some disadvantages of CORBA? Choose the **two correct** answers.

1 point

☐ Clients and servers must be implemented in the same language

☑ Implementation is difficult

☐ Dynamic binding is impossible

☑ Objects are always called remotely

In what format are SOAP messages represented?

1 point

○ HTML

◉ XML

○ SOAP formatting is not based on any other format

○ JSON

Which part of a SOAP message can be included but is **NOT** required?

1 point

○ HTTP method

○ body

○ envelope

◉ header

13. True or False: a SOAP message must be sent over HTTP.   1 point

- ○ True
- ● False

14. Which type of description will a service requester need to bind to a web service?   1 point

- ○ WS-Description
- ○ UDDI
- ● WSDL
- ○ SOAP

15. Which section of WSDL 2.0 contains concrete information like physical ports and mapping interfaces to endpoints?   1 point

- ○ bindings
- ○ portTypes
- ○ interfaces
- ● services

. What does the types section of a WSDL 2.0 document allow developers to do?

- ⦿ Define abstract data types
- ◯ Specify document-style or RPC-style interaction
- ◯ Specify which communications protocol is used (HTTP, SMTP...)
- ◯ Specifies the type of interaction (request-response, solicit-response...)

. Which aspects of web services does UDDI allow you to implement? Choose the **two correct** answers.

- ☐ invocation
- ☑ publication
- ☑ discovery
- ☐ composition

. In which section of a UDDI description will you find information like the category of business and service?

- ⦿ yellow pages
- ◯ white pages
- ◯ green pages
- ◯ blue pages

. Under which data structure of UDDI will you find a reference to the WSDL description?

- ◉ tModel
- ○ businessService
- ○ serviceInterface
- ○ businessEntity

. What is the difference between coordination and composition in the context of services?

- ○ coordination can only be done in a synchronous way
- ○ composition uses only objects
- ○ coordination is focused on pairwise interactions
- ◉ composition exposes a combination of services as another service

. Consider the following two statements. Choose the one correct option.

1. WS-BPEL only allows you to compose services out of basic services.

2. WS-BPEL has other features such as conditional logic and the ability to store state.

- ○ Only the first statement is true
- ○ Only the second statement is true
- ◉ Both statements are true
- ○ Both statements are false

. What does it mean that RESTful services are cacheable?   **1 point**

○ the server can store the state of the interaction

○ the service logic can be stored on the client

◉ the client can store a version of the server's response

○ the server can queue and prioritize requests

. Which of these formats can be used within the invocation of a REST service? Choose the **three correct** answers.   **1 point**

☑ JSON

☑ XML

☐ WSDL

☑ simple text

. Which of these is a good name for a REST resource? In other words, which of these resource names follow best practices? Choose the **two correct** answers.   **1 point**

☐ /car/2

☐ /getCar/2

☑ /cars/2/tires

☑ /cars/2

5. You received an HTTP status code 201 from the server, which means that a resource was created. In a well-designed REST service, which HTTP methods did you send to the server?

- ◉ POST
- ○ PUT
- ○ GET
- ○ DELETE

6. Which of these elements in the HTTP header of a request specifies the format of the response?

- ○ Content-Type:
- ○ Host
- ○ Content-Encoding:
- ◉ Accept:

7. What is the most important difference between WS*-style web services (which utilize SOAP, WSDL, etc.) and RESTful web services?

- ○ They do not use the same transfer protocol
- ○ WS* are more secure
- ◉ RESTful services are simpler
- ○ Their differences are very minor

Where are the formats of the input and output data specified, according to REST best practices?

- ○ In the HTTP request in XML format
- ○ In the HTTP header
- ● In the HTTP request in JSON format
- ○ As parameters in the URL

What are some advantages of microservices architecture? Select the **two correct** answers.

- ☑ Services can be developed in different languages
- ☐ Good performance
- ☐ No centralized management
- ☑ Scaling through replication

Consider the following two statements about microservices architecture. Choose the one correct option.

1. Communication between microservices is stateless

2. Testing microservice architecture is complex

- ○ Only the first statement is true.
- ○ Only the second statement is true
- ● Both statements are true
- ○ Neither statement is true

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