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Go to next item

Final Exam

Latest Submission Grade 86.66%

1.	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 / 1 point
	web appstatic web pageweb service	
	 dynamic web page Correct Correct! The above description has only static elements that will be stored on the web server as a full page. 	
2.	Which of these examples is a web application ?	0 / 1 point
	a website conducting a survey Online poker	
	an online shopping platform a blog	
	Incorrect Incorrect. A typical blog is a good example of a dynamically-generated web page, since it generates content dynamically (for example, showing the latest posts or allowing you to search)	
3.	Which of these formats can be used to express and structure content to be sent over the internet? Choose the three correct answers:	1 / 1 point
	 Correct Correct! HyperText Markup Language is used to structure content for web pages. 	
	✓ Correct Correctt JavaScript Object Notation is popular because it is lightweight and can easily be converted into Java objects.	
	▼ XML	
	 Correct Correct Correct! eXtended Markup Language can be used to structure content in many different ways and is the basis for many other standards. 	
	□ CSS	

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

1 / 1 point

a blank space	
a message body	
✓ request-line	
Correct Correct! The request-line includes the request method (such as POST or PUT), the request URI, and the protocol.	
headers	
Correct Correct! At the least, the headers will include host information (like IP address or domain name) and the content that the requester will accept.	
5. Which of these are essential parts of an HTTP server response? Choose the two correct answers.	1/1 point
a message body	
response-line	
headers	
Correct Correct! Just like in the request, there are headers to give information about the response.	
▼ status-line	
○ Correct Correct! The status line will give the HTTP status code. If the request is successful then this will likely be "200 OK"	
6. Consider the following two statements about Javascript. Choose the one correct option.	0 / 1 point
I. It can allow you to generate content within the browser 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	
Incorrect Incorrect. At least one of these statements is false!	
7. What is the term for the action that converts the parameters into a standardized message on the client side?	1/1 point
marshalling	., - F 3
○ blocking	
○ invocation	
○ binding	
○ Correct Correct! This is called marshalling	

8. Consider the following two statements about middleware and RPC. Choose the one correct option.	1/1 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	
Correct Correct! Both of these statements are true. Since RPC is a component that facilitates communication between remote processes, it is considered middleware. The IDL not only catalogs the procedures as but also generates the stubs needed to call them.	ailable
 Which of these can be found in Common Object Request Broker Architecture (CORBA)? Choose the three coanswers. 	orrect 1/1 point
✓ facilities	
 Correct Correct! Facilities provide application-level services like document management. 	
interface definition language	
○ Correct Correct! Just like RPC, CORBA has an IDL.	
object request broker	
 Correct Correct! This is an important part of the architecture. 	
client and server stubs	
10. What are some disadvantages of CORBA? Choose the two correct answers.	0 / 1 point
✓ Implementation is difficult	
Correct Correct! Limited time and resources may make CORBA difficult to implement properly.	
Clients and servers must be implemented in the same language	
This should not be selected Incorrect. CORBA allows for communication between different object-oriented languages.	
☐ Objects are always called remotely	
Dynamic binding is impossible	
11. In what format are SOAP messages represented?	1/1 point
∫ JSON	
O SOAP formatting is not based on any other format	
O HTML	

XML

Correct! SOAP, like all of the WS* web services, is based on XML.	
12. Which part of a SOAP message can be included but is NOT required? HTTP method	1/1 point
O body	
header envelope	
Civeope	
 Correct Correct Correct! A header is not necessary, but may be included, and contains information about routing or the client. 	
13. True or False: a SOAP message must be sent over HTTP.	1/1 point
○ True	
False	
Correct Correct! Other protocols such as SMTP (email) or FTP can be used.	
14. Which type of description will a service requester need to bind to a web service?	1 / 1 point
○ WS-Description	
O UDDI	
○ SOAP	
✓ Correct Correct! WSDL describes the interface so that a service requester can bind to it.	
15. Which section of WSDL 2.0 contains concrete information like physical ports and mapping interfaces to endpoints?	1/1 point
oportTypes	
services	
bindings	
o interfaces	
 Correct Correct The services section specifies which interfaces and bindings to use and at which physical port or endpoint. 	
16. What does the types section of a WSDL 2.0 document allow developers to do?	1/1 point
Define abstract data types	- / - point
Specify document-style or RPC-style interaction	
Specify which communications protocol is used (HTTP, SMTP)	
Specifies the type of interaction (request-response, solicit-response)	
() specimes the type of interaction (requestresponse, solicit esponse)	

⊘ Correct

⊘ Correct

21. Consider the following two statements. Choose the one correct option.	1/1 point
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	
O Both statements are true	
O Both statements are false	
 Correct Correct! These features help you attain rich functionality when you create composite services. 	
22. What does it mean that RESTful services are cacheable?	1/1 point
the server can store the state of the interaction	
the server can queue and prioritize requests	
the client can store a version of the server's response	
the service logic can be stored on the client	
Correct Correct A server can specify that a response is cacheable which means the client will store a local version of it in case of a duplicate response.	
23. Which of these formats can be used within the invocation of a REST service? Choose the three correct answers.	1/1 point
✓ JSON	
 Correct Correct JSON is an acceptable and widely used format for passing information to and from a REST service. 	
✓ XML	
✓ XML	
Correct Correct! XML can definitely be used for passing information to and from a REST service.	
✓ simple text	
♥ Correct Correct! Even simple text works for REST services as long as the client and server both understand it.	
□ WSDL	
24. 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.	1/1 point
/car/2	
✓ /cars/2	
 Correct Correct! We recommend using plural names for your resources for consistency. 	
getCar/2	
✓ /cars/2/tires	
 Correct Correct! Sub-resources can show the relationship between resources. 	

25. 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?	1 / 1 point
O DELETE	
POST	
O PUT	
○ GET	
 Correct Correct! POST is usually used to create a new resource in RESTful web services. 	
26. Which of these elements in the HTTP header of a request specifies the format of the response?	1/1 point
Content-Encoding:	2,250
Content-Type:	
Host	
Accept:	
 Correct Correct: This field specifies what kind of content will be understood by the client. 	
27. What is the most important difference between WS*-style web services (which utilize SOAP, WSDL, etc.) and RESTful web services?	1/1 point
They do not use the same transfer protocol	
RESTful services are simpler	
Their differences are very minor	
○ W5* are more secure	
Correct Correct! RESTful services do not impose as many restrictions on the data format, etc., and use simple HTTP methods. Be careful, though, as both styles of web services may become complex.	
28. Where are the formats of the input and output data specified, according to REST best practices?	1/1 point
O In the HTTP request in XML format	
In the HTTP header	
O In the HTTP request in JSON format	
As parameters in the URL	
Correct Correct! The HTTP header can specify the format of the request and what kind of response it will understand in the response from the server.	
29. What are some advantages of microservices architecture? Select the two correct answers.	1/1 point
Services can be developed in different languages	
 Correct Correct This allows developers to use the best tools for the job, and even to try new languages in some 	

	parts of the software.	
	No centralized management	
	Good performance	
~	Scaling through replication	
	 Correct Correct! Scaling can be achieved through replication of services, and this scaling can be done independent of other services. 	
30. C	onsider the following two statements about microservices architecture. Choose the one correct option.	1 / 1 point
	t. 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	