



Final Exam

TOTAL POINTS 30

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 point

- ☐ dynamic web page
- ☒ static web page
- ☐ web service
- ☐ web app

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

1 point

- ☐ a website conducting a survey
- ☐ online poker
- ☒ an online shopping platform
- ☐ a blog

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 point

- ☐ CSS
- ☒ XML
- ☒ HTML
- ☒ JSON

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

1 point

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

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

1 point

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

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

1 point

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

- ☐ binding
- ☐ blocking
- ☒ marshalling
- ☐ invocation

8. 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

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

1 point

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

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

1 point

- ☒ Implementation is difficult
- ☒ Objects are always called remotely
- ☐ Dynamic binding is impossible
- ☐ Clients and servers must be implemented in the same language

11. In what format are SOAP messages represented?

1 point

- ☒ XML
- ☐ SOAP formatting is not based on any other format
- ☐ HTML
- ☐ JSON

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

1 point

- ☐ envelope
- ☐ body
- ☒ header

☐ HTTP method

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

- ☐ SOAP
- ☐ UDDI
- ☒ WSDL
- ☐ WS-Description

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

1 point

- ☐ bindings
- ☐ portTypes
- ☒ services
- ☐ interfaces

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

1 point

- ☒ 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...)

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

1 point

- ☐ invocation
- ☒ publication
- ☒ discovery
- ☐ composition

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

1 point

- ☒ yellow pages
- ☐ blue pages
- ☐ green pages
- ☐ white pages

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

1 point

- ☒ businessEntity
- ☐ tModel
- ☐ businessService
- ☐ serviceInterface

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

1 point

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

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

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
- ☒ Both statements are true
- ☐ Both statements are false

22. What does it mean that RESTful services are cacheable?

1 point

- ☐ the service logic can be stored on the client
- ☐ the server can queue and prioritize requests
- ☒ the client can store a version of the server's response
- ☐ the server can store the state of the interaction

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

1 point

- ☒ JSON
- ☐ WSDL
- ☒ XML
- ☒ simple text

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 point

- ☒ /cars/2/tires
- ☒ /cars/2
- ☐ /car/2
- ☐ /getCar/2

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 point

- ☐ DELETE
- ☐ PUT
- ☐ GET
- ☒ POST

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

1 point

- ☐ Host
- ☐ Content-Encoding:
- ☐ Content-Type:
- ☒ Accept:

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

1 point

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

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

1 point

- ☒ As parameters in the URL
- ☐ In the HTTP request in JSON format
- ☐ In the HTTP header
- ☐ In the HTTP request in XML format

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

1 point

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

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

1 point

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

Upgrade to submit