Module 3 Review

Total points 12

1. REST uses several HTTP methods to communicate. Which HTTP method should not make a change to data on the server?

   1 point

   Enter answer here

2. Which of these are constraints of REST architectures? Choose the **three correct** answers.

   1 point

   ☑ Layered and client-server based

   ☑ Clients can cache responses

   ☐ Interactions rely on state

   ☑ Uniform interface for communication

3. According to REST best practices, where should you specify what format the input and output messages are in?

   1 point

   ◯ XML schema

   ◯ sub-resources in the URI

   ⦿ HTTP headers

   ◯ Parameters in the URI

4. Which of these are acceptable REST URIs according to best practices? Choose the **two correct** answers.

1 point

- ☑ /students/
- ☑ /students/3/
- ☐ /student/
- ☐ /getstudent/

5. Which of these is **NOT** used in developing RESTful web services?

1 point

- ○ XML
- ⦿ SOAP
- ○ JSON
- ○ simple text

6. By convention, which HTML method is usually used to create a *new resource*?

1 point

- ○ DELETE
- ⦿ POST
- ○ PATCH
- ○ PUT

7. What is the recommended way to not break functionality if your RESTful API is being used by many users?   **1 point**

○ Subscribe your service consumers to change notifications

◉ version your API

○ Describe your service with WSDL

○ Refactor the service, keeping the API the same

8. Which of these best describes microservices?   **1 point**

◉ a variation of SOA applied on an application scale

○ Web service architectures consisting of lots of small, modular services

○ Migrating business functionality into a set of services incrementally instead of all at once

○ Replicating services and modifying them to fill other roles

9. Consider the two statements. Choose the one correct option.   **1 point**

1. Microservices must be in the same language and framework

2. Microservices can be replicated for scaling

○ Only the first statement is true

◉ Only the second statement is true

○ Both statements are true

○ Neither statement is true

10. Which are the advantages of microservices? Choose the **two correct** answers.

1 point

- ☐ Performance is very good
- ☐ Testing is simple
- ☑ Services can be scaled independently
- ☑ Small teams can develop microservices quickly

11. How can you pass parameters in a REST call? Select the **two correct** answers.

1 point

- ☐ In the SOAP header
- ☑ In the URL
- ☐ In the HTTP header
- ☑ In XML

12. Consider the following two statements about RESTful web services. Choose the one correct option

1 point

1. Requests can be sent in simple text
2. PUT is usually used to create new resource

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

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