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**

> GET

2. Which of these are constraints of REST architectures? Choose the **three correct** answers. | **1 point**

- ☐ Uniform interface for communication
- ☑ Interactions rely on state
- ☑ Clients can cache responses
- ☑ Layered and client-server based

3. According to REST best practices, where should you specify what format the input and output messages are in? | **1 point**

- ○ sub-resources in the URI
- ◉ HTTP headers
- ○ Parameters in the URI
- ○ XML schema

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**

- ○ JSON
- ○ XML
- ◉ SOAP
- ○ simple text

6. By convention, which HTML method is usually used to create a *new resource*? | **1 point**

- ○ DELETE
- ○ PUT
- ○ PATCH
- ◉ POST

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

- ○ Refactor the service, keeping the API the same
- ◉ version your API
- ○ Describe your service with WSDL
- ○ Subscribe your service consumers to change notifications

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

- ○ Migrating business functionality into a set of services incrementally instead of all at once
- ◉ a variation of SOA applied on an application scale
- ○ Web service architectures consisting of lots of small, modular services

○ 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

☑ Small teams can develop microservices quickly

☑ Services can be scaled independently

11. How can you pass parameters in a REST call? Select the **two correct** answers.   `1 point`

☑ In the URL

☐ In the SOAP header

☑ In XML

☐ In the HTTP header

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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