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
- [x] Layered and client-server based
- [x] Interactions rely on state
- [x] Clients can cache responses

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

- (●) HTTP headers
- ( ) XML schema
- ( ) Parameters in the URI
- ( ) sub-resources in the URI

4. Which of these are acceptable REST URIs according to best practices? Choose the **two correct** answers.   **1 point**

- [x] /students/
- [x] /students/3/
- [ ] /student/
- [ ] /getstudent/

5. Which of these is **NOT** used in developing RESTful web services?   **1 point**

- ( ) JSON
- (●) SOAP
- ( ) XML
- ( ) simple text

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

- (●) POST
- ( ) PATCH
- ( ) PUT
- ( ) DELETE

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

- ( ) Describe your service with WSDL
- (●) version your API
- ( ) Subscribe your service consumers to change notifications
- ( ) Refactor the service, keeping the API the same

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

- (●) Web service architectures consisting of lots of small, modular services
- ( ) a variation of SOA applied on an application scale
- ( ) 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**

- [x] Services can be scaled independently

☐ Performance is very good

☑ Small teams can develop microservices quickly

☐ Testing is simple

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

`1 point`

☑ In the HTTP header

☐ In XML

☐ In the SOAP header

☑ In the URL

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

[Upgrade to submit]

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☑ In the HTTP header

☐ In XML

☐ In the SOAP header