

## 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

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

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

1 point

- ☒ HTTP headers
- ☐ sub-resources in the URI
- ☐ 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

- ☐ XML
- ☒ SOAP
- ☐ simple text
- ☐ JSON

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

1 point

- ☐ PUT
- ☐ PATCH
- ☒ POST
- ☐ DELETE

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
- ☐ Describe your service with WSDL
- ☒ version your API
- ☐ 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
- ☒ Small teams can develop microservices quickly
- ☐ Testing is simple
- ☒ Services can be scaled independently

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

1 point

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