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## Module 3 Review

Latest Submission Grade **91.66%**

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

1 / 1 point

GET



**Correct**

Correct! The GET command should only be used to obtain resources and not make changes to them.

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

1 / 1 point

☒ Clients can cache responses



**Correct**

Correct! If the server marks a response as cacheable then the client can save it.

☒ Layered and client-server based



**Correct**

Correct! Interactions consist of requests and responses and several hardware and software layers may be called.

☒ Uniform interface for communication



**Correct**

Correct! A uniform interface is provided by a specific way of using HTTP methods and a consistent method of locating resources, URI.

☐ Interactions rely on state

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

1 / 1 point

☐ sub-resources in the URI

☒ HTTP headers

☐ XML schema

☐ Parameters in the URI



**Correct**

Correct! The input and output formats are specified in the HTTP headers.

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

1 / 1 point

☒ /students/



**Correct**

Correct! Plural resource names are often a good starting point.

☒ /students/3/



**Correct**

Correct! Sub-resources can help you clarify relationships and identify particular resources.

- ☐ /student/
- ☐ /getstudent/

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

1 / 1 point

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



**Correct**

Correct! SOAP is used for WS\* style web services. REST uses lighter-weight protocols.

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

1 / 1 point

- ☒ POST
- ☐ PUT
- ☐ DELETE
- ☐ PATCH



**Correct**

Correct! POST is usually used to create a new resource.

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

0 / 1 point

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



**Incorrect**

Incorrect. This is theoretically possible but we learned in the last module that WSDL specifications have to be impractically precise to make this workable.

8. Which of these best describes microservices?

1 / 1 point

- ☒ a variation of SOA applied on an application scale
- ☐ Migrating business functionality into a set of services incrementally instead of all at once
- ☐ Web service architectures consisting of lots of small, modular services
- ☐ Replicating services and modifying them to fill other roles



**Correct**

Correct! This is a great description of microservices.

9. Consider the two statements. Choose the one correct option.

1 / 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

✓ **Correct**  
Correct! Microservices are easily replicated and this can provide both scale and robustness.

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

1 / 1 point

- ☒ Services can be scaled independently

✓ **Correct**  
Correct! Services can be scaled (often by replication) as needed without scaling other services.

- ☒ Small teams can develop microservices quickly

✓ **Correct**  
Correct! Each microservice has a small responsibility that can be built by a small team in a short timeframe.

- ☐ Testing is simple
- ☐ Performance is very good

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

1 / 1 point

- ☐ In the HTTP header
- ☒ In the URL

✓ **Correct**  
Correct! You can pass parameters in the URL

- ☐ In the SOAP header
- ☒ In XML

✓ **Correct**  
Correct! You can represent parameters in XML format

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

1 / 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

✓ **Correct**  
Correct! Requests can be sent in XML or JSON format or simple text. Of course, the REST service has to be configured to process the simple text.

