✓ **Congratulations! You passed!**

Grade received 100%   **Latest Submission Grade** 100%   **To pass** 70% or higher

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

| GET |

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

1 / 1 point

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

☐ Interactions rely on state

☑ 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.

1 / 1 point

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

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

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

1 / 1 point

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

☑ /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/

1 / 1 point

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

○ JSON
◉ SOAP
○ simple text
○ XML

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

1 / 1 point

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

○ PUT

○ PATCH

○ DELETE

◉ POST

> ⊘ **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?   `1 / 1 point`

◉ version your API

○ Describe your service with WSDL

○ Subscribe your service consumers to change notifications

○ Refactor the service, keeping the API the same

> ⊘ **Correct**
> Correct! This allows you update your service without breaking functionality.

8. Which of these best describes microservices?   `1 / 1 point`

○ Replicating services and modifying them to fill other roles

○ 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

> ⊘ **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`

☑ 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.

☐ Performance is very good

☐ Testing is simple

☑ Services can be scaled independently

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

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

☑ 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

☐ In the HTTP header

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

1. Requests can be sent in simple text

2. PUT is usually used to create new resource

1 / 1 point

◉ 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.

☐ In the SOAP header

☑ In XML

> ⊘ **Correct**
> Correct! You can represent parameters in XML format