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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? 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

- [x] Layered and client-server based

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

- [x] Clients can cache responses

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

- [ ] Interactions rely on state
- [x] 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.

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

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

- [x] /students/

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

- [x] /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

- ○ simple text
- ◉ SOAP
- ○ JSON
- ○ 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
- ○ DELETE
- ○ PUT
- ○ 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? 1 / 1 point

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

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
- 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

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

- [ ] Performance is very good
- [ ] Testing is simple
- [x] 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.

- [x] 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

- [x] In the URL

Correct
Correct! You can pass parameters in the URL

- [x] In XML

Correct
Correct! You can represent parameters in XML format

- [ ] In the SOAP header
- [ ] In the HTTP header

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.