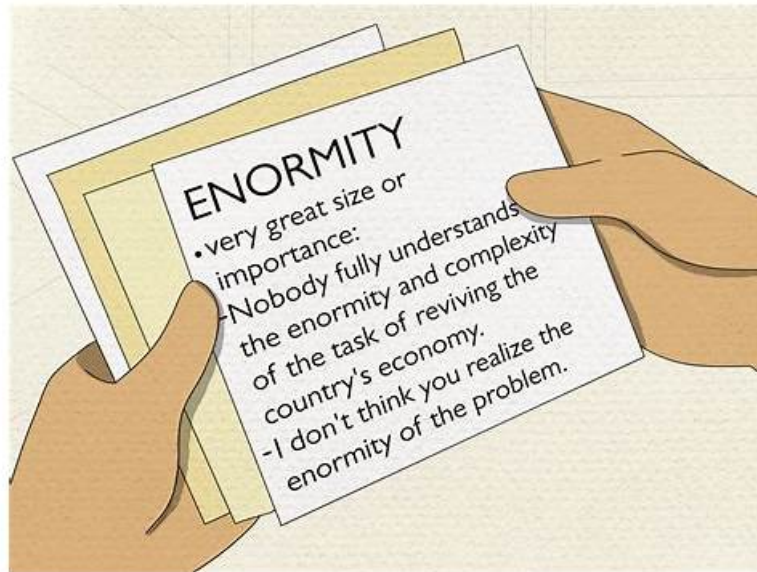


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## Cisco DevNet Associate Exam Sample Questions (Q425-Q430):

### NEW QUESTION # 425

Which two concepts describe test-driven development? (Choose two.)

- A. Write a test before writing code.
- B. Implementation is driven by incremental testing of release candidates.
- C. Tests are created when code is ready for release.
- D. User acceptance testers development the test requirements.
- E. It enables code refactoring

**Answer: A,E**

Explanation:

<https://www.agilealliance.org/glossary/tdd/>

It can be succinctly described by the following set of rules:

- write a "single" unit test describing an aspect of the program
- run the test, which should fail because the program lacks that feature
- write "just enough" code, the simplest possible, to make the test pass
- "refactor" the code until it conforms to the simplicity criteria
- repeat, "accumulating" unit tests over time

### NEW QUESTION # 426

Which two items are Cisco DevNet resources? (Choose two.)

- A. Bitbucket
- B. Sandbox
- C. TAC support
- D. Software research
- E. API Documentation

**Answer: B,E**

Explanation:

Reference:

Cisco DevNet provides several resources to help developers and network engineers learn, code, and manage their networks more effectively:

Sandbox: Cisco DevNet Sandboxes offer preconfigured environments to develop, test, and explore various Cisco technologies and APIs without needing physical hardware. These sandboxes are available 24/7 and provide instant access to a wide range of Cisco solutions.

API Documentation: DevNet provides comprehensive API documentation for Cisco products and solutions, allowing developers to understand and use Cisco APIs effectively. This documentation includes detailed information about endpoints, parameters, request/response formats, and example code.

Cisco DevNet Associate Certification Guide: Chapter on Cisco DevNet Resources and Tools.

Cisco DevNet Portal: Sandbox and API Documentation.

### NEW QUESTION # 427

Which detail is included in a routing table?

- A. Broadcast address
- B. IP protocol
- C. Destination next hop or outgoing interface
- D. TCP or UDP port number

**Answer: C**

Explanation:

A routing table contains critical information used by routers to determine the best path for forwarding packets. The essential details included in a routing table are:

Destination network: The IP address of the destination network.

Next hop: The IP address of the next hop router or the outgoing interface to reach the destination network.

Metric: The cost associated with the path to the destination network, used to select the best route.

Route type: The type of route (e.g., directly connected, static, dynamic).

### NEW QUESTION # 428

Refer to the exhibit.

```
1 def enable_function(if_name, if_status, if_type):
2     headers = {'Accept': 'application/yang-data+json',
3               'Content-Type': 'application/yang-data+json'}
4     payload = {
5         "ietf-interfaces:interface": {
6             "name": if_name,
7             "enabled": if_status,
8             "type": if_type,
9         }
10    }
11    base_url = 'https://192.168.1.1:8443'
12    restconf_url = '/restconf/data/ietf-interfaces:interfaces/interface'
13
14    res = requests.put(f'{base_url}{restconf_url}={if_name}',
15                     headers=headers, json=payload,
16                     auth=('cisco', 'secret'), verify=False)
```

A network engineer wants to automate the port enable/disable process on specific Cisco switches. The engineer creates a script to send a request through RESTCONF and uses ietf as the YANG model and JSON as payload. Which command enables an interface named Loopback1?

- A. `def enable_function(Loopback1, true, 'iana-if-type:softwareLoopback')`
- B. `def enable_function('iana-if-type:softwareLoopback', Loopback1, false,)`
- C. `enable_function(Loopback1, true, 'iana-if-type:softwareLoopback')`
- D. `enable_function('iana-if-type:softwareLoopback', Loopback1, true,)`

**Answer: C**

Explanation:

In the provided Python function `enable_function`, the parameters are `if_name`, `if_status`, and `if_type`, which correspond to the interface name, status (enabled/disabled), and interface type respectively.

\* Function Parameters: The function `enable_function` is designed to take three parameters: the interface name (`if_name`), the status (`if_status`), and the type (`if_type`).

\* Correct Order and Values: To enable the interface named "Loopback1", you need to pass the correct values in the order they are defined in the function.

Option A correctly calls the function with the interface name "Loopback1", the status true (enabled), and the interface type 'iana-if-type:softwareLoopback'.

Reference:

Cisco DevNet Documentation: RESTCONF and YANG Models

### NEW QUESTION # 429

A developer creates an application that must provide an encrypted connection or API keys. The keys will be used to communicate with a REST API. Which command must be used for the secure connection?

- A. `curl -X GET 'https://username.app.com/endpoint/?api_key=12345abcdef'`
- B. `curl -X GET 'http://username.app.com/endpoint/?api_key=12345abcdef'`
- C. `curl -v 'ftp://username.app.com/endpoint/?api_key=12345abcdef'`
- D. `curl -X PUSH 'http://username.app.com/endpoint/?api_key=12345abcdef'`

**Answer: A**

Explanation:

To provide an encrypted connection when using API keys to communicate with a REST API, the connection must use HTTPS. The curl command with the `-X GET` option and an HTTPS URL ensures that the communication is encrypted, protecting the API key and data in transit.

Reference: Cisco DevNet Secure API Communication

### NEW QUESTION # 430

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