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**Cisco**

**200-901**

*DevNet Associate (DEVASC)*



### Question: 303

Which two statements describe the advantages of using a version control system? (Choose two.)

- A. It allows for branching and merging so that different tasks are worked on in isolation before they are merged into a feature or master branch.
- B. It provides tooling to automate application builds and infrastructure provisioning.
- C. It allows multiple engineers to work against the same code and configuration files and manage differences and conflicts.
- D. It provides a system to track User Stories and allocate to backlogs.
- E. It allows developers to write effective unit tests.

**Answer:** AD

Explanation:

Reference: <https://www.agileconnection.com/article/picking-right-branch-merge-strategy>

### Question: 304

When a Cisco IOS XE networking device is configured using RESTCONF, what is the default data-encoding method?

- A. YANG
- B. YAML
- C. XML
- D. x-form-encoding

**Answer:** A

Explanation:

Reference [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b\\_166\\_programmability\\_cg/restconf\\_prog\\_int.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.html)

### Question: 305

Refer to the exhibit.

```
docker run -p 3000:5000 f877cbf2ff33
```

A process on the host wants to access the service running inside this Docker container.

Which port is used to make a connection?

- A. only outbound connections between 3000 and 5000 are possible
- B. port 3000
- C. any port between 3000 and 5000
- D. port 5000

**Answer:** C

**Question:** 306

Which device is a system that monitors and controls incoming and outgoing network traffic based on predetermined security roles?

- A. router
- B. switch
- C. load balancer
- D. firewall

**Answer:** D

**Question:** 307

Refer to the exhibit.

```
json_string = """
{
    "researcher": {
        "name": "Ford Perfect",
        "species": "Betelgeusian",
        "relatives": [
            {
                "name": "Zaphod Beeblebrox",
                "species": "Betelgeusian"
            }
        ]
    }
}
"""

my_json = json.loads(json_string)
```

Which Python data structure does my\_json contain?

- A. map
- B. list
- C. json
- D. dict

**Answer:** D

Explanation:

Reference: <https://stackoverflow.com/questions/34764979/loading-python-string-with-u-as-json? noredirect=1&lq=1>

**Question:** 308

Which description of a default gateway is true?

- A. It is a security feature that denies certain traffic.
- B. It is a device that receives IP packets that have no explicit next-hop in the routing table.
- C. It is a feature that translates between public and private addresses.
- D. It is a device that receives Layer 2 frames with an unknown destination address.

**Answer: B**

Explanation:

Reference: <https://www.certificationkits.com/cisco-certification/ccna-articles/cisco-ccna-intro-to-routing-basics/cisco-ccna-default-gateway-a-default-routes/>

**Question: 309**

Which two elements are foundational of DevOps? (Choose two.)

- A. organizing cross-functional teams over organizational silos
- B. designing applications as microservices
- C. encouraging containers for the deployment of applications
- D. automating over documenting
- E. optimizing the cost of infrastructures

**Answer: AC**

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/products/collateral/cloud-systems-management/cloudcenter/white-paper-c11-737221.pdf>

**Question: 310**

A developer is reviewing a code that was written by a colleague. It runs fine, but there are many lines of code to do a seemingly simple task repeatedly.

Which action organizes the code?

- A. Refactor the code by removing any unnecessary tests.
- B. Reverse engineer and rewrite the code logic.
- C. Using functions, rewrite any pieces of code that are repeated.
- D. Modify the code to use loops.

**Answer: A**

**Question: 311**

Refer to the exhibit.

```

$ diff -u5 fish.py cat.py
--- fish.py      2020-01-02 09:41:02.840000000 +0100
+++ cat.py      2020-01-02 09:41:06.8859999800 +0100
@@ -160,11 +160,12 @@

    @single_request_timeout.setter
    def single_request_timeout(self, value):
        """The timeout (seconds) for a single HTTP REST API request."""
        check_type(value, int, optional=True)
-       assert value is None or value > 0
+       if value is not None and value <= 0:
+           raise ValueError("single_request_timeout must be positive integer")
        self._single_request_timeout = value

    @property
    def wait_on_rate_limit(self)
        """Automatic rate-limit handling.

```

The output of a unified diff when comparing two versions of a Python script is shown.

Which two “single\_request\_timeout()” functions are defined in fish.py and cat.py? (Choose two.)

A)

file: cat.py

```

@single_request_timeout.setter
def single_request_timeout(self, value):
    """The timeout (seconds) for a single HTTP REST API request."""
    check_type(value, int, optional=True)
    assert value is None or value > 0
    if value is not None and Value <= 0:
        raise ValueError("single_request_timeout must be positive")
    self._single_request_timeout = value

```

B)

file: fish.py

```

@single_request_timeout.setter
def single_request_timeout(self, value):
    """The timeout (seconds) for a single HTTP REST API request."""
    check_type(value, int, optional=True)
    assert value is None or value > 0
    self._single_request_timeout = value

```

C)

file: cat.py

```
@single_request_timeout.setter
def single_request_timeout(self, value):
    """The timeout (seconds) for a single HTTP REST API request."""
    check_type(value, int, optional=True)
    if value is not None and Value <= 0:
        raise ValueError("single_request_timeout must be positive")
    self._single_request_timeout = value
```

D)

file: fish.py

```
@single_request_timeout.setter
def single_request_timeout(self, value):
    """The timeout (seconds) for a single HTTP REST API request."""
    check_type(value, int, optional=True)
    self._single_request_timeout = value
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** AB

**Question:** 312

**Question:** 313

Which two types of NAT are used in a network? (Choose two.)

- A. routed NAT
- B. static NAT
- C. multicast NAT
- D. normal NAT
- E. dynamic NAT

**Answer:** BE

Explanation:

Reference: <https://www.dummies.com/programming/networking/cisco/types-of-network-addresstranslation/>

**Question:** 314

Refer to the exhibit.

```
def process_devices(dnac, token):
    url = "https://{}/api/v1/network-device".format(dnac['host'])
    headers["x-auth-token"] = token
    response = requests.get(url, headers=headers, verify=False)
    data = response.json()
    for item in data['response']:
        print(item["hostname"], " ", item["managementIpAddress"])
```

What is the function of the Python script?

- A. Loop through the returned of network devices and, for each device, print the device name and management IP address.
- B. Count and print the total number of available devices.
- C. For each device that is returned, display the device type and associated management IP address.
- D. Iterate over a list of network devices and write all device names and management IP addresses to an output file.

**Answer:** B

**Question:** 315

Refer to the exhibit.

```
<books>
  <science>
    <biology>10.00</biology>
    <geology>9.00</geology>
    <chemistry>8.00</chemistry>
  </science>
  <math>
    <calculus>20.00</calculus>
    <algebra>12.00</algebra>
  </math>
</books>
```

Which JSON is equivalent to the XML-encoded data?

A)

```
[ {
  "books": {
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  }
} ]
```

B)

```
{
  "books": [
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}
```

C)

```
{
  "books": [
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}
```

D)

```
{
  "books": [
    "science", {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math", {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

Explanation:

Reference: <https://www.guru99.com/json-vs-xml-difference.html>

**Question:** 316

- What are the purpose of the Cisco VIRL software tool?
- A. to verify configurations against compliance standards
  - B. to automate API workflows
  - C. to simulate and model networks
  - D. to test performance of an application

**Answer:** C

Explanation:

Reference: <https://www.speaknetworks.com/cisco-virl-better-gns3/>

**Question:** 317

- What are two advantages of version control software? (Choose two.)
- A. It supports tracking and comparison of changes in binary format files.
  - B. It allows new team members to access the current code and history.
  - C. It supports comparisons between revisions of source code files.
  - D. It provides wiki collaboration software for documentation.

E. It allows old versions of packaged applications to be hosted on the Internet.

**Answer:** AC

Explanation:

Explanation: Version control is a way to keep a track of the changes in the code so that if something goes wrong, we can make comparisons in different code versions and revert to any previous version that we want. It is very much required where multiple developers are continuously working on /changing the source code.

**Question: 318**

Which CI/CD tool is an automation tool used to build, test, and deploy software?

- A. Git
- B. Gradle
- C. Nagios
- D. Jenkins

**Answer:** D

Explanation:

Reference: <https://www.infoworld.com/article/3271126/what-is-cicd-continuous-integration-and-continuousdelivery-explained.html>



# SAMPLE QUESTIONS

*These questions are for demo purpose only. **Full version is up to date and contains actual questions and answers.***

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