Vendor: Cisco

Exam Code: 300-435

Exam Name: Automating and Programming Cisco Enterprise Solutions (ENAUTO)

Version: DEMO

QUESTION 1
In which direction does the Cisco DNA Center Intent API communicate?

A. westbound
B. eastbound
C. northbound
D. southbound

Answer: C
Explanation:
The Intent API is a Northbound REST API that exposes specific capabilities of the Cisco DNA Center platform. The Intent API provides policy-based abstraction of business intent, allowing focus on an outcome rather than struggling with individual mechanisms steps. The RESTful Cisco DNA Center Intent API uses HTTPS verbs (GET, POST, PUT, and DELETE) with JSON structures to discover and control the network.
Reference: https://developer.cisco.com/docs/dna-center/#!cisco-dna-center-platform-overview/intent-api-northbound

QUESTION 2
Refer to the exhibit. How many YANG models does the NETCONF <get> operation interact with?

```
<rcp xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="101">
  <get>
    <filter>
      <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
        <ntp>
          <server xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-ntp">
            <server-list>
              <ip-address>10.11.10.65</ip-address>
            </server-list>
          <server
        </ntp>
      </native>
      <ntp-oper-data xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-ntp-oper">
        <ntp-status-info>
          <ntp-associations>
            <peer-stratum/>
          </ntp-associations>
        </ntp-status-info>
      </ntp-oper-data>
    </filter>
  </get>
</rcp>
```

A. one
B. two
C. three
D. four

Answer: A
Explanation:
The get operation tag is at the beginning of the document. It interacted only with NTP and its related services. There get operation interacted only with one model.

QUESTION 3
Refer to the exhibit. What is the result when running the Python scripts?

```
neighbors = ['s1', 's2', 's3']
switch = {'hostname':'nexus','os':'7.0.3','neighbors':neighbors}
print(switch['neighbors'][1])
```

A. s1
B. s2
C. s1, s2, s3
D. s3

Answer: B
Explanation:

```
1  neighbors = ['s1', 's2', 's3']
2  switch = {'hostname':'nexus','os':'7.0.3','neighbors':neighbors
3  print(switch['neighbors' ][1])
```

✓ Execute Mode, Version, Inputs & Arguments

3.7.4 ✓   Int

CommandLine Arguments

Result
CPU Time: 0.02 sec(s), Memory: 7604 kilobyte(s)

s2

QUESTION 4
Which two features are foundations of a software-defined network instead of a traditional network? (Choose two.)

A. control plane and data plane are tightly coupled
B. build upon a robust software stack
C. requires device by device-level configurations
D. automated through expressed intent to a software controller
E. requires significant physical hardware resources

Answer: BD
Explanation:
In traditional networks, control plane and data plane are coupled tightly. It also requires device by device configurations and of course, it uses physical hardware resources to function. Whereas, SDN is based on a software stack. In Cisco SDNs are automated through expressed intent to a software controller.

QUESTION 5
What are two characteristics of RPC API calls? (Choose two.)

A. They can be used only on network devices.
B. They use only UDP for communications.
C. Parameters can be passed to the calls.
D. They must use SSL/TLS.
E. They call a single function or service.

Answer: AC
Explanation:
https://pubs.opengroup.org/onlinepubs/9629399/chap6.htm

QUESTION 6
Which two actions do Python virtual environments allow users to perform? (Choose two.)

A. Simplify the CI/CD pipeline when checking a project into a version control system, such as Git.
B. Efficiently port code between different languages, such as JavaScript and Python.
C. Run and simulate other operating systems within a development environment.
D. Quickly create any Python environment for testing and debugging purposes.
E. Quickly create an isolated Python environment with module dependencies.

Answer: DE
Explanation:
https://realpython.com/python-virtual-environments-a-primer/

QUESTION 7
What are two benefits of leveraging Ansible for automation of Cisco IOS XE Software? (Choose two.)

A. Ansible playbooks are packaged and installed on IOS XE devices for automatic execution when an IOS device reboots.
B. All IOS XE operating systems include Ansible playbooks for basic system administration tasks.
C. It is a device-independent method for automation and can be used with any type of device or operating system.
D. Ansible playbooks can be written from the IOS XE EXEC command line to configure the device itself.

E. It does not require any modules of software except SSH to be loaded on the network device.

Answer: AC
Explanation:
https://developer.cisco.com/learning/modules/intro-ansible-iosxe/ansible-overview/step/4

QUESTION 8
Refer to the exhibit. Cisco SD-WAN deployment must be troubleshooted using vManage APIs. A call to vEdge Hardware Health API returns the data in the exhibit (only a portion is shown). If this JSON is converted to a Python dictionary and assigned to the variable "d", how the status is accessed that is indicated on line 16?

```
1  {
2    'data':
3      [
4        {
5          'count': 4,
6          'detailsURL': '',
7          'name': 'vEdge Hardware Health',
8          'status': 'error',
9          'statusList':
10           [
11             {
12               'count': 4,
13               'detailsURL': '/dataservice/device/hardwarehealth/detail?state=normal',
14               'message': '4 {normal=4, warning=0, error=0}',
15               'name': 'normal',
16               'status': 'up'
17             }
```

A. d[data][0][statusList][0][status]
B. d[`data'][`statusList'][`status']
C. d{`data'}[0]{`statusList'}[0]{`status'}
D. d[`data'][0][`statusList'][0][`status']

Answer: B
Explanation:
The 0s in option AC and D are not logical in this scenario. The status tag already takes care of the error message.

QUESTION 9
Which two features are characteristics of software-defined networks when compared to traditional infrastructure? (Choose two.)

A. configured box-by-box
B. changed manually
C. use overlay networks
D. designed to change
E. require software development experience to manage

Answer: CD
Explanation:
https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/VMDC/SDN/SDN.html

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