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## Question 1

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**Question Type:** MultipleChoice

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How does using the Python with statement in conjunction with ncclient manager improve an existing NETCONF automation script?

### Options:

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- A-** It allows the NETCONF connection to the device to be gracefully closed without having to explicitly code this action.
- B-** It manages the running configuration of the device by comparing it to the new configuration applied using NETCONF.
- C-** The with statement tries to connect to the device using TCP port 830 first but also tries to connect via TCP port 22.
- D-** Use of the with statement catches any exceptions when trying to connect to a device using NETCONF.

### Answer:

---

D

## Question 2

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**Question Type:** MultipleChoice

---

The Netmiko BaseConnection class contains a method called "send\_config\_set()". Which two actions does this method perform on the device? (Choose two.)

**Options:**

---

- A-** It takes a filename parameter that executes commands contained in that file on the device.
- B-** It requires the user to explicitly send configure terminal and exit commands to the device to enter and exit configuration mode.
- C-** It automatically enters and exits configuration mode on the device.
- D-** It takes a Python iterable, such as a list of commands, and executes them in order on the device.
- E-** It saves the running configuration to the startup configuration after executing the configuration commands on the device.

**Answer:**

---

C, D

## Question 3

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**Question Type:** MultipleChoice

---

Refer to the exhibit.

`<operation> /<api-entry>/<path>?<query>#<fragment>`

Which two URI entries are optional and functional in this RESTCONF URI structure? (Choose two.)

**Options:**

---

- A- fragment
- B- query
- C- operation
- D- api-entry
- E- path

**Answer:**

---

B, E

**Explanation:**

---

<https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2016/pdf/DEVNET-1081.pdf> page 25

## Question 4

Question Type: DragDrop

Drag and drop the components of Cisco Network Services Orchestrator from the left onto the correct definitions on the right.

Network Element Drivers

manages installation of NED packages and service packages

Answer: Configuration Database

provides full support for any service change, including arbitrary modifications in real time

Device Manager

communicates directly with network devices using their native device management protocols

## Question 5

Package Manager  
Question Type: MultipleChoice

manages tasks such as pulling current running configurations from devices

Refer to the exhibit.  
Service Manager

contains the NSO view of the complete network configuration

```
module: Cisco-IOS-XR-isis-cfg
+--rw isis
  +--rw instances
    +--rw instance* [instance-name]
      +--rw nets
        +--rw net* [net-name]
          +--rw net-name      xr:Osi-net
```

Which XML output is a valid instantiation of the YANG model?

A)

```
<isis>
  <instances>
    <instance>
      <instance-name>1</instance-name>
      <nets>
        <net>
          <net-name>49.0010.0100.1001.00</net-name>
        </net>
      <nets>
    </instance>
  </instances>
</isis>
```

B)

```
<isis>
  <instances>
    <instance>1</instance>
    <nets>
      <net>xr:Osi-net 49.0100.1001.00</net>
    <nets>
  </instances>
</isis>
```

C)

```
<isis>
  <instances>
    <instance>
      <instance-name>
        <nets>
          <net>
            <net-name>
              1, 49.0010.0100.1001.00
            </net-name>
          </net>
        </nets>
      </instance-name>
    </instance>
  </instances>
</isis>
```

D)

```
<isis>
  <instances>
    <instance>
      <instance-name>1</instance-name>
      <nets>
        <net>
          <net-name>[49.0010.0100.1001.00]</net-name>
        </net>
      </nets>
    </instance>
  </instances>
</isis>
```

**Options:**

---

A- Option A

B- Option B

C- Option C

D- Option D

**Answer:**

---

A

## Question 6

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**Question Type:** MultipleChoice

---

Which data format should be used to serialize structured data in the most compact way?

**Options:**

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A- protobufs

B- YAML

C- JSON

D- XML

**Answer:**

---

B

**Explanation:**

---

<https://www.sitepoint.com/data-serialization-comparison-json-yaml-bson-messagepack/>

## Question 7

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**Question Type:** MultipleChoice

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Refer to the exhibit.

```
<?xml version= "1.0" encoding= "UTF-8" ?>
<employees>
  <employee>
    <id>1</id>
    <firstName>Jane</firstName>
    <firstName>Doe</lastName>
  </employee>
  <employee>
    <id>2</id>
    <firstName>Tim</firstName>
    <lastName>Public</lastName>
  </employee>
  <employee>
    <id>3</id>
    <firstName>John</firstName>
    <lastName>Doe</latName>
  </employee>
</employees>
```

Using the provided XML snippet, which Xpath expression prints "Jane"?

### Options:

---

**A-** //employee[1]/firstName/value()

**B-** //employee[0]/firstName/value()

C- //employee[1]/firstName/text()

D- //employee[0]/firstName/text()

**Answer:**

---

D

## Question 8

---

**Question Type:** MultipleChoice

---

Refer to the exhibit.

```
<edit-config xmlns= "urn:ietf:params:xml:ns:netconf:base:1.0">
  <target>
    <candidate/>
  </target>
<config>
  <host-names xmlns= "http://cisco.com/ns/yang/Cisco-IOS-XR-shellutil-cfg">
    <host-name>IOS-XR-SJC-19</host-name>
  </host-names>
</config>
</edit-config>
```

After this operation, what else is needed to change the hostname of the router to IOS-XR- SJC-19?

**Options:**

---

A- <confirm>

B- <close-session>

C- <get-config>

D- <commit>

**Answer:**

---

D

## Question 9

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**Question Type:** MultipleChoice

---

After a configuration request is sent using NETCONF, which call releases any locks and resources associated with the session?

### Options:

---

A- <exit-operation>

B- <close-activity>

C- <close-session>

D- <boot-app>

### Answer:

---

C

### Explanation:

---

<https://tools.ietf.org/html/rfc6241>

## Question 10

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**Question Type: MultipleChoice**

---

What are two benefits of using Cisco NSO? (Choose two.)

### Options:

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- A- It abstracts the device adapter and complex device logic from the service logic.
- B- It uses load balancing services for better traffic distribution.
- C- It easily integrates into northbound systems and APIs.
- D- It can replace the CI/CD pipeline tools.
- E- It automatically discovers all deployed services.

### Answer:

---

A, C

### Explanation:

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<https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2018/pdf/BRKDCN-2498.pdf>

## Question 11

---

**Question Type:** MultipleChoice

---

Refer to the exhibit.

What is the effect of the script on the device?

**Options:**

---

- A-** All interfaces except GigabitEthernet2 are reset to their default configurations.
- B-** It replaces the entire configuration for GigabitEthernet2 on the device using RESTCONF.
- C-** It merges the new configuration with the existing configuration on the device using RESTCONF.
- D-** It compares the configuration to the device. If it matches, the device sends back an HTTP 204 status code.

**Answer:**

---

C

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