# Free Questions for 300-420 by vceexamstest

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# Question 1

An engineer must use YANG with an XML representation to configure a Cisco IOS XE switch with these specifications:

IP address 10.10.10.10/27 configured on the interface GigabitEthernet2/1/0

connectivity from a directly connected host 10.10.10.1/27

Which YANG data model set must the engineer choose?

A)

```xml
<interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
 <interface>
   <name>GigabitEthernet2/1/0</name>
   <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethenetCsmacd</type>
   <enabled>false</enabled>
   <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
    <address>
      <ip>10.10.10.10</ip>
      <netmask>255.255.255.224</netmask>
    </address>
   </ipv4>
 </interface>
</interfaces>
```

B)

```xml
<interfaces YANG="urn:ietf:params:xml:ns:yang:ietf-interfaces">
  <interface>
    <name>GigabitEthernet2/1/0</name>
    <type YANG:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmacd</type>
    <enabled>true</enabled>
    <ipv4 YANG="urn:ietf:params:xml:ns:yang:ietf-ip">
      <address>
        <ip>10.10.10.10</ip>
        <netmask>255.255.255.224</netmask>
      <address>
    </ipv4>
  </interface>
</interfaces>
```

C)

```xml
<interfaces json="urn:ietf:params:json:ns:yang:ietf-interfaces">
 <interface>
  <name>GigabitEthermet2/1/0</name>
  <type json:ianaift="urn:ietf:params:json:ns:yang:iana-if-type">ianaift:ethernetCsmacd</type>
  <enabled>true</enabled>
  <ipv4 json="urn:ietf:params:json:ns:yang:ietf-ip">
   <address>
     <ip>10.10.10.10</ip>
     <netmask>255.255.255.224</netmask>
   </address>
  </ipv4>
 </interface>
</interfaces>
```

D)

```xml
<interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
  <interface>
    <name>GigabitEthernet2/1/0</name>
    <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmacd</type>
    <enabled>true</enabled>
    <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
      <address>
        <ip>10.10.10.10</ip>
        <netmask>255.255.255.224</netmask>
      </address>
    </ipv4>
  </interface>
</interfaces>
```

**Options:**

**A-** Option A

**B-** Option B

**C-** Option C

**D-** Option D

**Answer:**

D

# Question 2

**Question Type: MultipleChoice**

The customer solution requires QoS to support streaming multimedia over a WAN. An architect chooses to use Per-Hop Behavior. Which solution should the engineer use to of mark traffic traveling between branch sites?

**Options:**

**A-** LLQ with DSCP EF

**B-** CBWFQ with DSCP AF3

**C-** CBWFQ with DSCP AF2

**D-** LLQ with DSCP AF4

**Answer:**

A

# Question 3

An organization plans to deploy multicast across two different autonomous systems. Their solution must allow RPs to:

*discover active sources outside their domain

*use the underlying routing information for connectivity with other RPs

*announce sources joining the group

Which solution supports these requirements?

## Options:

**A-** MSDP

**B-** SSM

**C-** PIM-SM

**D-** PIM-DM

## Answer:

A

# Question 4

**Question Type:** **MultipleChoice**

Which method does Cisco SD-WAN use to avoid fragmentation issues?

**Options:**

**A-** PMTUD is used.

**B-** Traffic is marked with the DF bit set.

**C-** Jumbo frames are enabled.

**D-** Access circuits are configured with 1600 byte MTU settings.

**Answer:**

A

**Explanation:**

https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-cisco-sd-wan-ebook-cte-en.pdf

# Question 5

**Question Type:** **MultipleChoice**

An engineer is creating a design to enable IPv6 to run on an existing IPv4 IS-IS network. The IPv4 and IPv6 topologies will match exactly, and the engineer plans to use the same router levels for each protocol per interface. Which IS-IS design is required?

**Options:**

**A-** single topology without enabling transition feature

**B-** single topology with transition feature enabled

**C-** multi topology with transition feature enabled

**D-** multi topology without enabling transition feature

**Answer:**

C

**Explanation:**

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_isis/configuration/15-mt/irs-15-mt-book/ip6-route-multi-isis.html

# Question 6

**Question Type:** **MultipleChoice**

A global organization with several branches hired a network architect to design an overlay VPN solution. The branches communicate with each other frequently. The customer expects to add more branches in the future. To meet the customer's security requirements, the architect plans to provide traffic protection using dynamic IPsec tunnels. Which solution should the architect choose?

**Options:**

**A-** DMVPN

**B-** EasyVPN

**C-** GETVPN

**D-** L2TP

**Answer:**

A

# Question 7

**Question Type: MultipleChoice**

An engineer uses Postman and YANG to configure a router with:

- OSPF process ID 100
- network 10.10.10.0/28 enabled for Area 0

Which get-config replay verifies that the model set was designed correctly?

```xml
<rpc-reply message-id="urn:uuid:1b3d05cd-8118-3e6a-6c05-012354678aaf" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:json:ns:netconf:base:1.0">
  <data>
    <native json="http://cisco.com/ns/yang/ned/ios">
      <router>
        <ospf>
          <id>100</id>
          <network>
            <ip>10.10.10.0</ip>
            <mask>0.0.0.15</mask>
            <area>0</area>
          </network>
        </ospf>
      </router>
    </native>
  </data>
</rpc-reply>


<rpc-reply message-id="urn:uuid:1b3d05cd-8118-3e6a-6c05-012435678aaf" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <data>
    <native xmlns="http://cisco.com/ns/yang/ned/ios">
      <router>
        <ospf>
          <id>100</id>
          <network>
            <ip>10.10.10.0</ip>
            <mask>255.255.255.240</mask>
            <area>0</area>
          </network>
        </ospf>
      </router>
    </native>
  </data>
</rpc-reply>
```

```xml
<rpc-reply message-id="urn:uuid:1b3d05cd-8118-3e6a-6c05-021345678aaf" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <data>
    <native xmlns="http://cisco.com/ns/yang/ned/ios">
      <router>
        <ospf>
          <id>100</id>
          <network>
            <ip>10.10.10.0</ip>
            <mask>0.0.0.240</mask>
            <area>0</area>
          </network>
        </ospf>
      </router>
    </native>
  </data>
</rpc-reply>
```

```xml
<rpc-reply message-id="urn:uuid:1b3d05cd-8118-3e6a-6c05-394733226aaf" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <data>
    <native xmlns="http://cisco.com/ns/yang/ned/ios">
      <router>
        <ospf>
          <id>100</id>
          <network>
            <ip>10.10.10.0</ip>
            <mask>0.0.0.15</mask>
            <area>0</area>
          </network>
        </ospf>
      </router>
    </native>
  </data>
</rpc-reply>
```

## Options:

**A-** Option A

**B-** Option B

**C-** Option C

**D-** Option D

## Answer:

D

# Question 8

A company must automate a set of complex changes aligned with DR testing in the network. These changes are specific, and the DR playbook will be adjusted in the future. The playbook has diverse routing and switching assets in scope as well as multiple vendor and hardware platforms. A developer will create a thin, web front-end microservice and integrate with an Open daylight controller to push changes to the network. Which YANG model should be used?

## Options:

**A-** Use a single native vendor YANG model to minimize development time

**B-** Use an open YANG model to allow the reuse of code and standardize the implementation across platforms

**C-** Use multiple native vendor YANG models to provide code consistency.

**D-** Develop an individualized YANG model to minimize development resources and time to market.

## Answer:

B

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