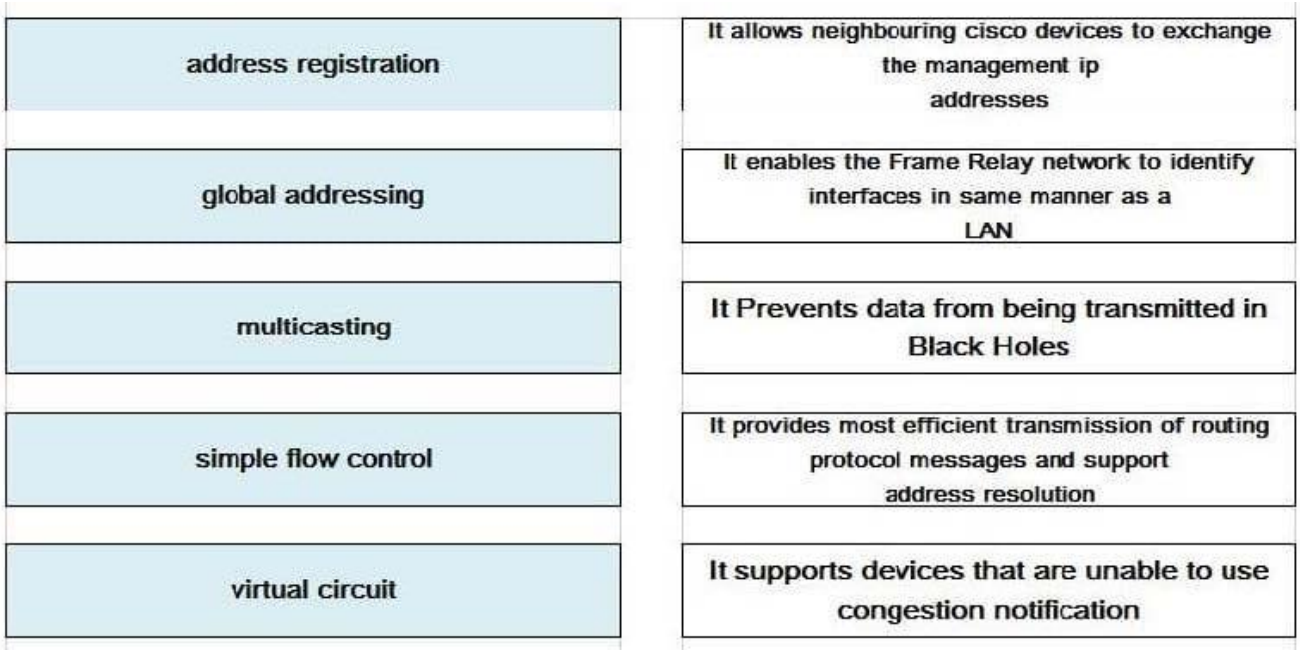
Vendor: Cisco
Exam Code: 300-435
Exam Name: Automating and Programming Cisco Enterprise Solutions (ENAUTO)
Certification: Cisco Certified DevNet Specialist
Total Questions: 192 Q&A (View Details)
Updated on: Feb 23, 2026

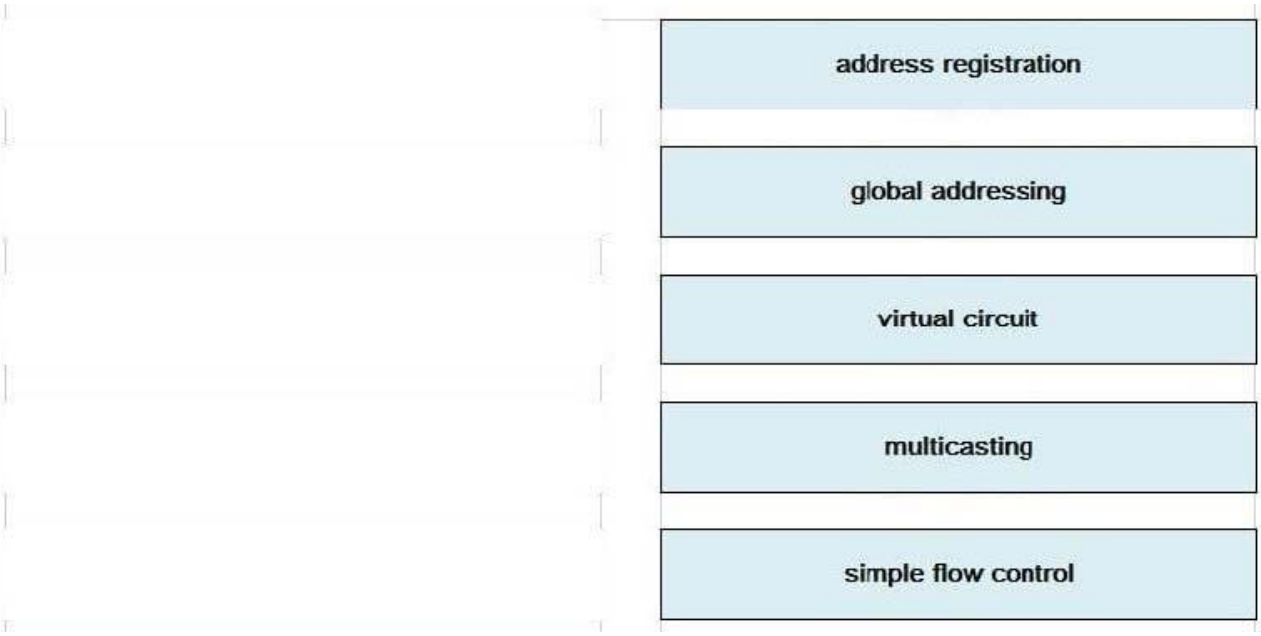
Question 1:
DRAG DROP

Drag and Drop the Frame Relay LMI extensions from the left onto the correct descriptions on the right.

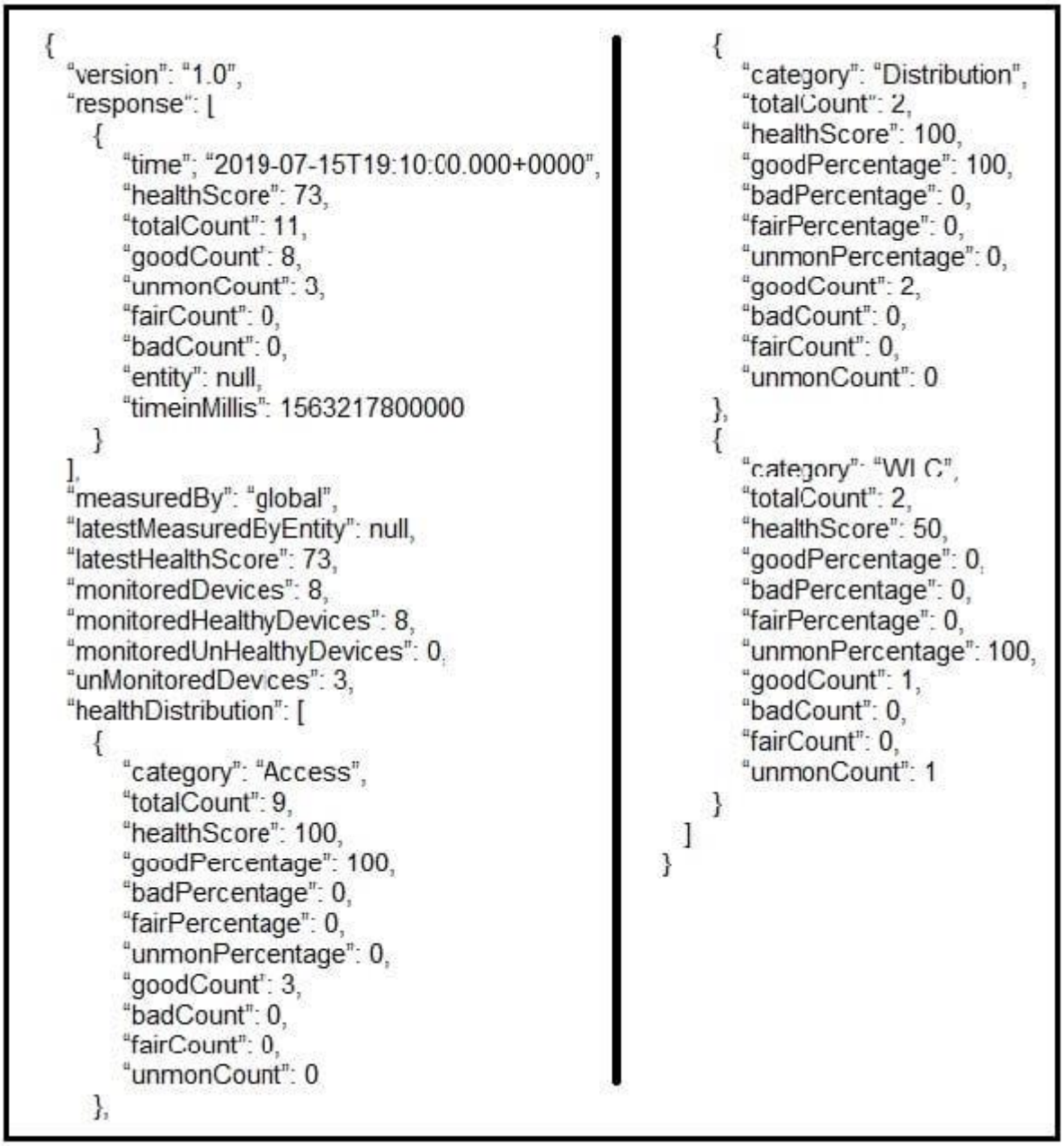
Select and Place:



Correct Answer:


address registration
global addressing
virtual circuit
multicasting
simple flow control

Question 2:



Refer to the exhibit. Which device type is functioning in a degraded state?

A. access point

B. distribution switch

C. access switch

D. wireless LAN controller

Correct Answer: C

Question 3:
DRAG DROP

```
GET: https://dnacsrv/api/v1/network-device
{
  "response": [
      {
        "type": "Cisco Catalyst 9300 switch",
        "errorCode": null,
        "family": "Switches and Hubs",
        "location": DC1,
        "role": "ACCESS",
        "macAddress: "a1:2b:30:40:41:50",
        "hostname": "cat_9k_1",
        "serialNumber": "FCW2136L0AK",
        "softwareVersion": "16.6.1",
        "locationName": null,
        "upTime": "13 days, 18:30:33.81",
        "softwareType": "IOS-XE",
        "collectionStatus": "Managed",
        "managementIpAddress": "10.10.22.66",
        "platformId": "C9300-24UX",
        "reachabilityStatus": "Reachable",
        "series": "Cisco Catalyst 9300 Series Switches",
        "snmpContact": "",
        "snmpLocation": "",
```

Refer to the exhibit. A GET request is issued to the Cisco DNA Center REST API. Drag and drop the GET request URL subpaths from the left onto the objectives on the right. Not all options are used.

Select and Place:

Answer Area

`/api/v1/network-device?softwareType=IOS-XE&softwareVersion=16.4.2`	List devices that are configured by using SNMP to be in the DC2 location
`/api/v1/network-device?location=DC2`	List device types
`/api/v1/network-device?(softwareType=IOS-XE) AND (softwareVersion=16.4.2)`	List the device that has an IP address of 10.222.10.35
`/api/v1/network-device?family=Switches and Hubs`	Display Cisco IOS XE devices that have IOS version 16.4.2
`/api/v1/network-device?ipAddress=10.222.10.35`	
`/api/v1/network-device?snmpLocation=DC2`	
`/api/v1/network-device?managementIp Address=10.222.10.35`	
`/api/v1/network-device?family=cat_9k_1`	

Correct Answer:

Answer Area

`/api/v1/network-device?softwareType=IOS-XE&softwareVersion=16.4.2`	`/api/v1/network-device?location=DC2`
	`/api/v1/network-device?managementIp Address=10.222.10.35`
	`/api/v1/network-device?ipAddress=10.222.10.35`
`/api/v1/network-device?family=Switches and Hubs`	`/api/v1/network-device?(softwareType=IOS-XE) AND (softwareVersion=16.4.2)`
`/api/v1/network-device?snmpLocation=DC2`	
`/api/v1/network-device?family=cat_9k_1`	

Reference: https://meraki.cisco.com/lib/pdf/meraki_whitepaper_captive_portal.pdf

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Question 4:
A programmer is creating a Meraki webhook Python script to send a message to Webex Teams. Which two elements should be configured to create this script? (Choose two.)

A. gRPC credentials

B. Webex Teams access token

C. XML formatted request

D. user authentication count

E. webhook server secret

Correct Answer: BD

Question 5:
Which two API calls are used to trigger a device configuration sync in Cisco DNA Center? (Choose two.)

A. PUT /dna/intent/api/v1/network-device

B. PUT /dna/intent/api/v1/network-device/sync-all

C. PUT /dna/intent/api/v1/network-device/{networkDeviceId}/sync

D. PUT /dna/intent/api/v1/network-device/sync

E. POST /dna/intent/api/v1/network-device/{networkDeviceId}/sync

Correct Answer: CE

Reference: https://github.com/CiscoDevNet/DNAC-JAVA-SDK/tree/master/DnacAppApi

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Question 6:

```
https://ios-xe:9443/restconf/data/ietf-interfaces:interfaces/

<interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
   <interface>
      <name>GigabitEthernet1</name>
      <description>DO NOT TOUCH ME</description>
      <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>255.255.255.0</netmask>
         </address>
      </ipv4>
      <ipv6 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip"/>
   </interface>
   <interface>
      <name>GigabitEthernet2</name>
      <description>WAN Interface</description>
      <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>172.16.12.1</ip>
            <netmask>255.255.255.0</netmask>
         </address>
      </ipv4>
      <ipv6 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip"/>
   </interface>
</interfaces>
```

Refer to the exhibit. A RESTCONF GET request is sent to a Cisco IOS XE device. The base URL of the request and the response in XML format are shown in the exhibit. What are the two YANG data nodes and modules referenced in the response? (Choose two.)

A. description is a key field defined in the interface list

B. The ethernetCsmacd type is imported from the iana-if-type module

C. address is a container defined in the ietf-interfaces module

D. ipv4 is a container defined in the ietf-ip module

E. interface has the YANG data node type of container

Correct Answer: AB

Question 7:
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

Correct Answer: CD

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

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Question 8:
Which two factors influence the location accuracy of a device using Scanning APIs? (Choose two.)

A. AP placement

B. device manufacturer/OS

C. client device orientation

D. battery life of the device

E. amount of device antennas

Correct Answer: AC

The geo-location coordinates (latitude, longitude) and X,Y location data accuracy can vary based on a number of factors and should be considered a best effort estimate. AP placement, environmental conditions, and client device orientation can influence X,Y estimation; experimentation can help improve the accuracy of results or determine a maximum acceptable uncertainty for data points.

Reference: https://developer.cisco.com/meraki/guides/location-services-solution-guide/

Question 9:
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

Correct Answer: BD

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 10:
FILL BLANK

Fill in the blanks to complete this API request against the Cisco SD_WAN vManage Statistics API, which specified a deviceId of 260faff9-2d31-4312-cf96-143b46db0211, a local-color of biz-internet, and a remote-color of gold.

https://vmanage-ip-address:8443/dataservice/device/app-route/statistics?[ ] 260faff9-2d31-4312-cf96-143b46db0211 [ ] biz-internet [ ] gold

A. deviceID=, local-color, remote-color

Correct Answer: A

Reference:
https://sdwan-docs.cisco.com/Product_Documentation/Command_Reference/Command_Reference/vManage_REST_APIs/Real-Time_Monitoring_APIs/Application-Aware_Routing#Statistics

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Question 11:

```
- name: Create VRFs as defined by local_vrfs
   ios_vrf:
      vrfs: "{{ local_vrfs }}"
      state: [ ]
   register: addvrf
```

Refer to the exhibit. An engineer creates an Ansible playbook to configure VRF information using a local_vrfs variable. The code must be completed so that it can be tested. Which string completes the code?

A. present

B. up

C. on

D. active

Correct Answer: A

Reference: https://docs.ansible.com/ansible/latest/modules/ios_vrf_module.html

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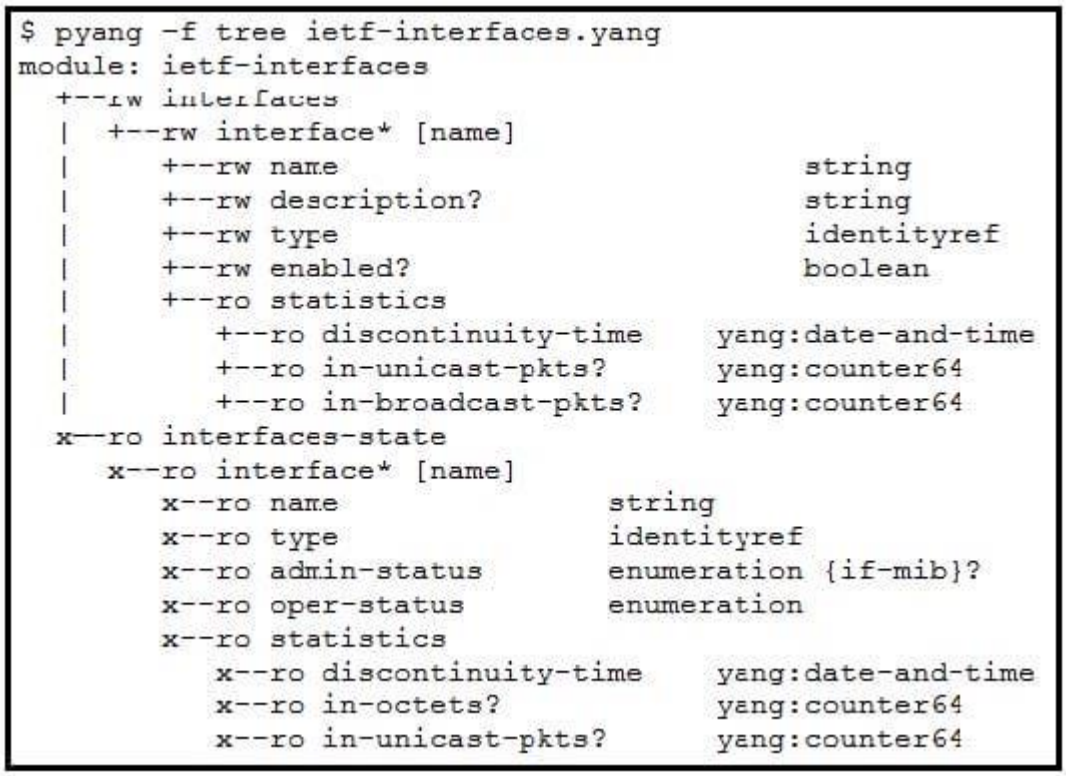
Question 12:
DRAG DROP



Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to complete the ncclient request that captures the operational data of the interfaces of a Cisco IOS XE device. Options may be used once, more than once, or not at all.

Select and Place:

```
from ncclient import manager
import xml.dom.minidom

USERNAME = 'cisco'
PASSWORD = 'cisco'
HOST = '10.10.20.181'

data = '''
    <  [          ]  xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
       <  [          ]  >
          <statistics></statistics>
       </ [          ]  >
    </ [          ]  >
'''

with manager.connect(host=HOST, password=PASSWORD, port=830, username=USERNAME,
                     hostkey_verify=False, device_params={'name':'iosxe'}) as m:
    c = m.get(filter=(" [          ] ", data)).data_xml

    xml = xml.dom.minidom.parseString(c)
    xml_pretty_str = xml.toprettyxml()
    print(xml_pretty_str)
```

interfaces-state	interface-state	interfaces
xpath	subtree	interface

Correct Answer:

interfaces-state	interface-state	interfaces
xpath	subtree	interface

Question 13:

During a network outage, a network administrator used the Cisco SD-WAN vManage Troubleshooting Dashboard APIs to troubleshoot the cause of the issue. Which detail is captured during troubleshooting with these APIs?

A. VPN health

B. public cloud resources

C. connections summary

D. OMP connection health

Correct Answer: C

Reference:
https://sdwan-docs.cisco.com/Product_Documentation/Command_Reference/Command_Reference/vManage_REST_APIs/Troubleshooting_APIs/Dashboard

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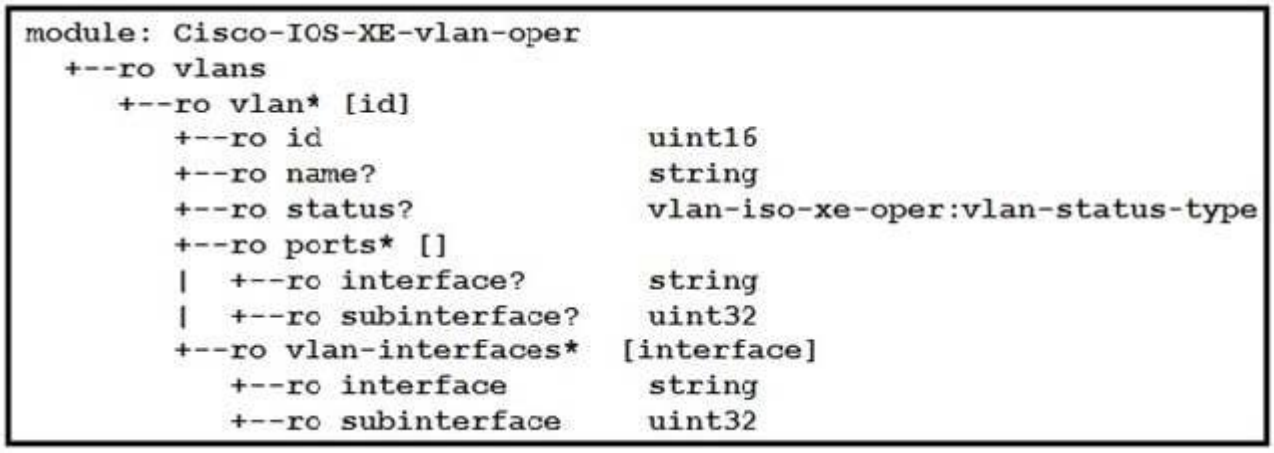
Question 14:



Refer to the exhibit. Which NETCONF protocol operation is used to interact with the YANG model?

A.

B.

C.

D.

Correct Answer: A

Reference:
https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs-r6-4/programmability/configuration/guide/b-programmability-cg-crs-64x.pdf

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Question 15:

```
from device_info import ios_xe1
from ncclient import manager
import xmltodict

netconf_filter = open('filter-ietf-interfaces.xml").read()

if __name__ == '__main__':
   with manager.connect(host=ios_xe1["address"],
                        port=ios+xe1["port"],
                        username=ios+xe1["username"],
                        password=ios+xe1["password"],
                        hostkey_verify=False) as m:

     netconf_reply = m.get(netcong_filter)

     intf_details = xmltodict.parse(netconf_reply.xml)["rpc-reply"]["data"]
     intf_config = intf_details["interfaces"]["interface"]
     intf_info = intf_details["interfaces-state"]["interface"]

     print("")
     print("Interface Details:")
     print(" Name: {}".format(              ["name"]))
     print(" Description: {}".format(intf_config["description"]))
     print(" Type: {}".format(intf_config["type"]["#text"]))
     print(" MAC Address: {}".format(intf_info["phys-address"]))
     print(" Packet Input: {}".format(intf_info["statistics"]["in-unicast-pkts"]))
     print(" Packet Output: {}".format(intf_info["statistics"]["out-unicast-pkts"]))
```

```
<filter>
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <name>GigabitEthernet2</name>
    </interface>
  </interfaces>
  <interfaces-state xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <name>GigabitEthernet2</name>
    </interface>
  </interfaces-state>
</filter>
```

Refer to the exhibits. An engineer creates a Python scripts using ncclient to display interface information. The code must be completed so that it can be tested. Which expression completes the highlighted section in the format call?

A. intf_info

B. intf_config

C. intf_get

D. intf_config[0]

Correct Answer: A

The highlighted format cell for print is for the host.

Reference:
https://github.com/CiscoDevNet/dnac-python-path-trace/blob/master/path_trace.py