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```
module: ietf-ip
augment /if:interfaces/if:interface:
  +--rw ipv4!
  | +--rw enabled?      boolean
  | +--rw forwarding?  boolean
  | +--rw mtu?         uint16
  | +--rw address* [ip]
  | | +--rw ip          inet:ipv4-address-no-zone
  | | +--rw (subnet)
  | | | +--:(prefix-length)
  | | | | +--rw prefix-length?  uint8
  | | | | +--:(netmask)
  | | | | +--rw netmask?       yang:dotted-quad (ipv4-non-contiguous-netmasks)?
  | | | +--ro origin?         ip-address-origin
  | +--rw neighbor* [ip]
  | | +--rw ip          inet:ipv4-address-no-zone
  | | +--rw link-layer-address  yang:phys-address
```

- A. list
- B. leaf-list
- C. container
- D. submodule

Correct Answer: A

Explanation:

Symbols after data node names: "?" means an optional node, "!" means a presence container, and "*" denotes a list and leaf-list.

QUESTION 18

The automation engineer must replace device configuration using RESTCONF. How is this configured using the Python library Requests?

- A. delete()
- B. post()
- C. put()
- D. patch()

Correct Answer: C

Explanation:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.html

QUESTION 19

Which two Netmiko methods are used to configure a device? (Choose two.)

- A. send_config()
- B. send_control_from_file()
- C. send_config_set()
- D. send_command()
- E. send_config_from_file()

Correct Answer: CE

Explanation:

<https://pynet.twb-tech.com/blog/automation/netmiko.html>

QUESTION 20

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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?

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

- A. present
- B. up
- C. on
- D. active

Correct Answer: A

Explanation:

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

QUESTION 21

DRAG DROP

Drag and drop the commands to the Ansible playbook that applies configuration to an interface on a Cisco IOS XE device. Not all options are used.

<input type="text" value="ioscmd"/>	<input type="text" value="interface"/>
<input type="text" value="parents"/>	<input type="text" value="iosxe"/>
<input type="text" value="iosconfig"/>	<input type="text" value="ios_config"/>

```
- name: configure interface settings
  :
  lines:
    -ip address 172.31.1.1 255.255.255.0
    -no shutdown
  : interface GigabitEthernet1/0
```

Correct Answer:

<input type="text" value="ioscmd"/>	<input type="text" value="interface"/>
<input type="text" value="parents"/>	<input type="text" value="iosxe"/>
<input type="text" value="iosconfig"/>	<input type="text" value="ios_config"/>

```
- name: configure interface settings
  ios_config:
  lines:
    -ip address 172.31.1.1 255.255.255.0
    -no shutdown
  parents: interface GigabitEthernet1/0
```

QUESTION 22

Refer to the exhibit. Which XML tag completes this NETCONF telemetry subscription with a Cisco IOS XE device?

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```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <establish-subscription
    xmlns="urn:ietf:params:xml:ns:yang:ietf-event-notifications"
    xmlns:yp="urn:ietf:params:xml:ns:yang:ietf-yang-push">
    <stream>yp:yang-push</stream>
    <yp:xpath-filter>/mdt-oper:mdt-oper-data/mdt-subscriptions</yp:xpath-filter>
    <yp: [ ] >1000</yp: [ ] >
  </establish-subscription>
</rpc>
```

- A. crontab
- B. cadence
- C. frequency
- D. period

Correct Answer: D

Explanation:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b_1610_programmability_cg/model_driven_telemetry.html

QUESTION 23

Which two statements are benefits of YANG-push telemetry data over traditional data collection methods? (Choose two.)

- A. The subscription requests use less bandwidth than SNMP polls.
- B. It uses UDP rather than TCP.
- C. You can precisely define data subscriptions.
- D. It scales better than SNMP.
- E. It is supported on more devices than SNMP.

Correct Answer: BC

Explanation:

<https://tools.ietf.org/id/draft-song-ntf-01.html>

QUESTION 24

Fill in the blank to complete the statement.

[] is a solution for automating the configuration of a device when it is first powered on, using DHCP and TFTP.

Correct Answer: Zero touch provisioning (ZTP)

Explanation:

<https://developer.cisco.com/docs/ios-xe/#!/day-zero-provisioning-quick-start-guide>

QUESTION 25

Which tag is required when establishing a YANG-push subscription with a Cisco IOS XE device?

- A. <yp:period>

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- B. <yp:subscription-result>
- C. <yp:subscription-id>
- D. <yp:xpath-filter>

Correct Answer: D

Explanation:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1612/b_1612_programmability_cg/model_driven_telemetry.html

QUESTION 26

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?

```
from device_info import ios_xel
from ncclient import manager
import xmldict

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

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

        netconf_reply = m.get(netcong_filter)

        intf_details = xmldict.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>
```

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- A. intf_info
- B. intf_config
- C. intf_get
- D. intf_config[0]

Correct Answer: A

Explanation:

The highlighted format cell for print is for the host.

Reference:

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

QUESTION 27

Refer to the exhibit. What is the correct ncclient method to use to collect the running configuration of a Cisco IOS XE device that uses NETCONF?

```
from ncclient import manager
with manager.connect(
    host='10.0.0.1',
    port=12022,
    username='cisco',
    password='cisco',
    hostkey_verify=False,
    allow_agent=False,
    look_for_keys=False,
    device_params={'name': 'iosxe'},
) as m:
```

- A. config=m.copy_config(source='running')
- B. config=m.get(source='running')
- C. config=m.collect_config(source='running')
- D. config=m.get_config(source='running')

Correct Answer: A

Explanation:

<https://ncclient.readthedocs.io/en/latest/>

QUESTION 28

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

Correct Answer: deviceId=, local-color, remote-color

Explanation:

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