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QUESTION 1

Which statement describes an asynchronous API communication?

- A. Asynchronous communication waits for a response.
- B. Synchronous communication is with a central orchestrator.
- C. It is not necessary to wait for availability of a resource.
- D. An application can freeze if there is no response from a request.

Correct Answer: C

QUESTION 2

You create a simple service package skeleton in Cisco NSO using ncs-make-package ?ervice-skeleton template vlan. Which two steps must be performed to complete the service? (Choose two.)

- A. Create the VLAN service template in XML.
- B. Modify the VLAN FastMap algorithm.
- C. Start the VLAN Python VM.
- D. Create the VLAN service model in YANG.
- E. Compile the VLAN NED.

Correct Answer: DE

QUESTION 3



```
<?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>
```

Refer to the exhibit. Using the provided XML snippet, which Xpath expression prints "Jane"?

- A. //employee[1]/firstName/value()
- B. //employee[0]/firstName/value()
- C. //employee[1]/firstName/text()
- D. //employee[0]/firstName/text()

Correct Answer: D

QUESTION 4



```
#!/user/bin/env python

import json
import requests

NE = {
    "device":{
        "name": "ios-device",
        "address": "192.168.0.1",
        "port":22,
        "state":{
            "admin-state": "unlocked"

        },
        "authgroup": "default",
        "device-type":{
            "cli":{
                "ned-id": "tailf-ned-cisco-ios-id:cisco-ios"
            }
        }
    }
}

def main():
    baseUri = "http://localhost:8080/restconf/data"
    auth = ('john', 'suoer123')
    headers = {'Content-Type': 'application/yang-data+json'}
    response = requests.put(baseUri + '/devices/device=ios-device', auth=auth, headers=headers,
                            data=json.dumps(NE))
    print(response)

    baseUriOperation = "http://localhost:8080/restconf/operations"

    response = requests.post(baseUriOperation + "/devices/device=ios3/sync-from", auth=auth, headers=headers)
    print(response)

if __name__ == "__main__":
    main()
```

Refer to the exhibit. A Python script is created to add a new device on Cisco NSO using RESTCONF API. The device is added successfully, but a 405 Method Not Allowed RESTCONF error code has received as the line to fetch SSH keys runs. Which code is missing to complete the script?

- A. `response = requests.put(baseUriOperation + "/devices/device=ios-device/ssh/fetch-host-keys", auth=auth, headers=headers)`
- B. `response = requests.post(baseUriOperation + "/devices/device=ios-device/ssh/fetch-host-keys", auth=auth, headers=headers)`
- C. `response = requests.post(baseUriOperation + "/devices/device=ios-device/ssh/request-host-keys", auth=auth, headers=headers)`
- D. `response = requests.put(baseUriOperation + "/devices/device=ios-device/ssh/request-host-keys", auth=auth,`



headers=headers)

Correct Answer: C

QUESTION 5

Which two Python libraries are used to write a script to retrieve network device information using RESTCONF? (Choose two.)

- A. PySNMP
- B. requests
- C. ncclient
- D. YANG
- E. json

Correct Answer: BE

QUESTION 6

FILL BLANK

Fill in the blank to complete the statement about NETCONF and Python libraries.

_____ is a Python library that facilitates client-side scripting and deploying changes to the network using the NETCONF protocol.

- A. Ncclient

Correct Answer: A

Reference: <https://pypi.org/project/ncclient/>

QUESTION 7

A user is debugging a problem with model-driven dial-in/out streams with gRPC for a Cisco IOS XR implementation. There is no streaming data and the path is not resolved when the show telemetry model-driven subscription command is issued on the router. What is the cause of the problem?

- A. The emsd process is not running.
- B. There are polling interval problems.
- C. SNMP is not enabled.
- D. There is no support for IOS XR 64-bit.

Correct Answer: A



Reference: <https://community.cisco.com/t5/service-providers-documents/implementing-grpc-telemetry-on-xr-devices/t-p/3393966>

QUESTION 8

Which NETCONF datastore is locked while the network device configuration is edited?

- A. running
- B. common
- C. startup D. working

Correct Answer: A

QUESTION 9

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

- A. protobufs
- B. YAML
- C. JSON
- D. XML

Correct Answer: B

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

QUESTION 10

When using Cisco YDK, which syntax configures the BGP ASN using OpenConfig BGP?

- A. `bgp.config.as_ = 65000`
- B. `bgp.global_.config.as = 65000`
- C. `bgp.global.config.as_ = 65000`
- D. `bgp.global_.config.as_ = 65000`

Correct Answer: D

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/BRKNMS-2032.pdf>

QUESTION 11



```
tasks:
- name: run show version on remote devices
  iosxr_command:
    commands: show version
```

Refer to the exhibit. What must be added after the last line of the Ansible playbook to check if the output contains "IOS-XR"?

- A. wait_for: result[1] contains "IOS-XR"
- B. wait_for: result[0] contains IOS-XR
- C. notify: "IOS-XR"
- D. wait_for_connection:

Correct Answer: B

QUESTION 12

An engineer must change from using NETCONF for streaming telemetry to telemetry data using gRPC framework because NETCONF uses XML for message and payload encoding. Which two messages and payload encodings does gNMI use? (Choose two.)

- A. gNMI notifications with XML
- B. protobuf notifications with XML
- C. protobuf payload
- D. JSON payload
- E. gNMI notifications with JSON

Correct Answer: CE

Reference: https://books.google.com/books?id=4AqXDwAAQBAJandpg=PT131andlpg=PT131anddq=messages+and+payload+encodings+does+gNMI+useandsource=blandots=81hpFjlZ_9andsig=ACfU3U1EAEwjRMBnCiHNESBwFLHvZDHkBwandhl=enandsa=Xandved=2ahUKEwjirNeZptfpAhXDoFsKHeqMBFsQ6AEwBHoECAsQAQ#v=onepageandq=messages%20and%20payload%20encodings%20does%20gNMI%20useandf=false

QUESTION 13



```
module abc_service {
  namespace "http://com/abc/service";
  prefix abc_service;

  import ietf-inet-types { prefix inet; }
  import tailf-ncs { prefix ncs; }
  imports tailf-common { prefix tailf; }
  import tailf-ned-cisco-ios { prefix ios; }

  augment "/ncs:services" {

    list abc_service {
      key "name";
      ncs:servicepoint "abc_service";

      leaf name {
        mandatory true;
        type string;
      }
      list link {
        key "router_name";

        leaf router_name {
          mandatory true;
          type leafref {
            path "/ncs:devices/ncs:device/ncs:name";
          }
        }
      }
    }
  }
}
```

Refer to the exhibit. Based on the YANG presented, what is the correct xpath to retrieve the router named "ios-device" under the "CustomerA" service name?

- A. /ncs:abc_service/CustomerA/ios-device
- B. /abc_service/CustomerA/"ios-device"
- C. /ncs:service/abc_service/"CustomerA"/ios-device
- D. /ncs:services/abc_service/CustomerA/ios-device

Correct Answer: D



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