

➤ **Vendor:** Cisco

➤ **Exam Code:** 300-535

➤ **Exam Name:** Automating and Programming Cisco Service Provider Solutions (SPAUTO)

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QUESTION 1

Refer to the exhibit. What is the significance of "*" before the "father" leaf that is shown in the pyang tree output?

```
pyang -f tree family.yang

module: family
  augment /ncs:services:
    +-----rw family* [father]
      +-----x check-sync
        | +-----w input
        | | +-----w outformat? outformat4
        | | +-----w (depth)?
        | | | +----: (deep)
        | | | | +-----w deep? empty
        | | | +-----: (shallow)
```

- A. It is a node list in a leaf type node.
- B. The father leaf is a key in the family list type.
- C. The leaf father is read-write in the family list.
- D. The node father is read-only in the family list.

Answer: A

QUESTION 2

An engineer needs to configure network devices in an automated way. Which two ways are used to create structured data using YANG to provide REST-like APIs to enable programmability access? (Choose two.)

- A. YAML
- B. JSON
- C. GPB
- D. JSON-RPC
- E. XML

Answer: BE

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QUESTION 3

Which two data formats are human readable? (Choose two.)

- A. YAML
- B. Apache Arrow
- C. gRPC
- D. binary
- E. JSON

Answer: AE

QUESTION 4

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.

Answer: A

QUESTION 5

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?

```
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";
          }
        }
      }
    }
  }
}
```

- 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

Answer: D

QUESTION 6

What are two fundamental design constraints of a RESTful API? (Choose two.)

- A. It includes a series of interactions to the API that are dependent on one another.
- B. It is dependent on the communication protocol being HTTP.
- C. It exposes procedures or functions for a client call.
- D. Each interaction is independent from all others on the server side.
- E. It is a client-server communication model where the client and the server are independent of one another.

Answer: DE

QUESTION 7

Which two operations must be used to allow a network engineer to use NETCONF to configure and manage networking devices? (Choose two.)

- A. <get-config>

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- B. <open-session>
- C. <close-session>
- D. <remove-config>
- E. <put>

Answer: AC

QUESTION 8

Refer to the exhibit. Which JSON output is a valid instantiation of the YANG model?

```
module: Cisco-IOS-XR-telemetry-model-driven-cfg
  x--rw telemetry-model-driven
    +--rw sensor-groups
      +--rw sensor-group* [sensor-group-identifier]
        +--rw sensor-paths
          |   +--rw sensor-path* [telemetry-sensor-path]
          |   +--rw telemetry-sensor-path string
          +--rw sensor-group-identifier xr:Cisco-ios-xr-string
```

- A.
- ```
{
 "Cisco-IOS-XR-telemetry-model-drive-cfg:telemetry-model-driven": {
 "sensor-groups": {
 "sensor-group": [{
 "sensor-paths": {
 "sensor-path": [
 ("telemetry-sensor-path": "openconfig-interfaces:interfaces"),
 ("telemetry-sensor-path": "openconfig-platform:components"),
]
 },
 "sensor-group-identifier": "Interface-Counters",
]
 }
 }
}
```
- B.
- ```
{
  "Cisco-IOS-XR-telemetry-model-drive-cfg:telemetry-model-driven": {
    "sensor-groups": {
      "sensor-group-identifier": "Interface-Counters",
      "sensor-paths": {
        {"telemetry-sensor-path": "openconfig-interfaces:interfaces"},
        {"telemetry-sensor-path": "openconfig-platform:components"},
      }
    }
  }
}
```

- C.
- ```
{
 "Cisco-IOS-XR-telemetry-model-drive-cfg:telemetry-model-driven": {
 "sensor-groups": {
 "sensor-group": [{
 "sensor-group-identifier": "Interface-Counters",
 "sensor-paths": {
 "sensor-path": [
 {
 "telemetry-sensor-path": "openconfig-interfaces:interfaces",
 "telemetry-sensor-path": "openconfig-platform:components",
 }
]
 }
 }]
 }
 }
}
```
- D.
- ```
{
  "Cisco-IOS-XR-telemetry-model-drive-cfg:telemetry-model-driven": (
    "sensor-groups": (
      "sensor-group": [(
        "sensor-group-identifier": "Interface-Counters",
        "sensor-paths": (
          "sensor-path": [
            ("telemetry-sensor-path": "openconfig-interfaces:interfaces"),
            ("telemetry-sensor-path": "openconfig-platform:components"),
          ]
        )
      )]
    )
  )
}
```

Answer: C

QUESTION 9

Refer to the exhibit. When YDK is used to interact with Cisco routers, what is the purpose of passing intf_f into the crud_service.read() method?

```
#!/usr/bin/env python

from ydk.models.openconfig.openconfig_interfaces import Interfaces
from ydk.errors import YError

def read_interfaces(crud_service, provider):

    intf_f = Interfaces()

    try:
        interfaces = crud_service.read(provider, intf_f)
        for interface in interfaces.interface:
            print(interface.name)
    except YError:
        print('An error occurred.')
```

- A. The Interfaces() class acts as a NETCONF filter, which limits the data returned to that of the openconfig:interfaces YANG model.
- B. It provides the data types of the openconfig:interfaces model to the router for dynamic

configuration of the interfaces.

- C. It locks the interfaces from modification by other active NETCONF sessions.
- D. It passes default values into the crud_service, which reconfigures all interfaces to their default configurations.

Answer: A

QUESTION 10

You create a simple service package skeleton in Cisco NSO using ncs-make-package 璽service-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.

Answer: AD

Explanation:

There is no such thing as VLAN NED, NED is dedicated for connection with network devices.

The thing with the compilation of the service package is the make, and it is only used for YANG file compilation and clean the directories.

And if using a template based service, a service YANG ans a service XML template must be created and parameterized.

QUESTION 11

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

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

Answer: A

QUESTION 12

Which Git command is needed to stage the file network-deploy.py to then commit the changes to the revision history?

- A. git init network-deploy.py
- B. git add network-deploy.py
- C. git merge network-deploy.py
- D. git commit network-deploy.py

Answer: B

QUESTION 13

Refer to the exhibit. Which HTTP authentication mechanism is being used?

curl -u john:password http://192.168.10.20

- A. simple
- B. basic
- C. OAuth
- D. token

Answer: B

QUESTION 14

Which statement describes the Cisco ESC core engine component?

- A. It interacts with the top orchestration layer using the REST and NETCONF/YANG NB APIs.
- B. It can be configured for high availability and cluster mode.
- C. It performs monitoring based on several monitoring methods.
- D. It manages transactions, validations, policies, workflows, VM state machines, and rollbacks.

Answer: D

QUESTION 15

Refer to the exhibit. The ncclient Python script is captured from the ncclient import manager. Which configuration on the Cisco IOS XE device is the script used to enable?

```
def main():
    """
    Main method that prints netconf capabilities of device.
    """
    device = {"ip": "10.2.101.11", "port": "830", "platform":
"csr",}
    with manager.connect(host=device['ip'],
port=device['port'], username='admin',
                        password= 'cisco.123',
hostkey_verify=False,
                        device_params=('name':
device['platform']},
                        look_for_keys=False,
allow_agent=False) as m:
        rpc = ' ' ' '
                <config>
                    <native
xmlns= "http://cisco.com/ns/yang/Cisco-IOS-XE-native">
                        <router>
                            <ospf
xmlns= "http://cisco.com/ns/yang/Cisco-IOS-XE-ospf">
                                <id>100</id>
                                <router-id>1.1.1.1</router-id>
                                <network>
                                    <ip>10.1.1.0</ip>
                                    <mask>0.0.0.3</mask>
                                    <area>0</area>
                                </network>
                            </ospf>
                        </router>
                    </native>
                </config>
                . . .
        reply = m.edit_config(rpc, target= 'running')
        print(reply)
if __name__ == '__main__':
    main()
```

- A. router ospf 100
router-id 1.1.1.1
network 10.1.1.0 0.0.0.3 area 0
- B. router ospf 100
network 10.1.1.0 0.0.0.3 area 0
- C. router ospf 100
router-id 10.1.1.0
network 1.1.1.1 0.0.0.3 area 0
- D. router ospf 100
router-id 1.1.1.1

Answer: A

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QUESTION 16

An engineer just completed the installation of Cisco NSO and all of its components. During testing, some of the services are not working properly. To resolve the issue, the engineer started undeploying service instances. What can this cause?

- A. It removes the service configuration from the network device only.
- B. It removes the service configuration from the network and NSO.
- C. It removes the service configuration from NSO only.
- D. It runs the service code again when the device is out of sync.

Answer: B

QUESTION 17

What is an interior YANG data node that exists in at most one instance in the data tree and has no value?

- A. listing node
- B. tree node
- C. container node
- D. leaf node

Answer: C

QUESTION 18

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.

Answer: C

QUESTION 19

Refer to the exhibit. Which two configuration leaves in this YANG model are optional? (Choose two.)

```
module: openconfig-interfaces
+- -rw interfaces
  +- -rw interface* [name]
    +- -rw name -> . ./config/name
    +- -rw config
      | +- -rw type identityref
      | +- -rw mtu? uint16
      | +- -rw name? string
      | +- -rw description? string
      | +- -rw enabled? boolean
    +- -ro state
      | +- -ro type identityref
      | +- -ro mtu? uint16
      | +- -ro name? string
      | +- -ro description? string
      | +- -ro enabled? boolean
      | +- -ro ifindex? uint32
      | +- -ro admin-status enumeration
      | +- -ro oper-status enumeration
      | +- -ro last change? yang:timeticks
      | +- -ro counters
      | | +- -ro in-octets? yang:counter64
      | | +- -ro in-unicast-pkts? yang:counter64
      | | +- -ro in-broadcast-pkts? yang:counter64
```

- A. last-change
- B. oper-status
- C. type
- D. enabled
- E. mtu

Answer: AE

QUESTION 20

Which is a format used for the YANG JSON content-type header?

- A. application/vnd.yang.data+json
- B. application/vnd.yang.data+json
- C. application/yang.data.json
- D. application/vnd.yang.data json

Answer: B

QUESTION 21

Refer to the exhibit. What are the two outcomes when the RESTCONF POST code is implemented? (Choose two.)

```
"request": {  
  "url": "http://{{server}}:{{port}}/restconf/data/l3vpn:vpn/l3vpn=test",  
  "method": "POST",  
<snip>
```

- A. A new VPN endpoint to a VPN is added.
- B. An L3VPN endpoint to a VPN is replaced.
- C. An L3VPN endpoint to a VPN is merged.
- D. A new L3VPN endpoint to a VPN is added.
- E. An L3VPN endpoint to a VPN is updated.

Answer: AD

QUESTION 22

What are two advantages of using Python virtual environments? (Choose two.)

- A. They allow for multiple Python projects to use different versions of the same dependency without conflict.
- B. They allow multiple Python applications to share virtual memory between subprocesses.
- C. They allow for isolated environments where each can use a different version of Python.
- D. They allow for all Python projects to utilize the same set of shared dependencies.
- E. They allow for multiple virtual machines to share a single Python environment.

Answer: AC

QUESTION 23

Which two northbound protocols are supported by the Cisco NSO Controller? (Choose two)

- A. REST
- B. SOAP
- C. OpenFlow
- D. NETCONF
- E. PCEP

Answer: AD

QUESTION 24

What tool is used to perform a "what if" failure analysis in a service provider network that is running Segment Routing?

- A. Cisco WAN Automation Engine
- B. Cisco Evolved Programmable Network Manager
- C. Cisco Network Services Orchestrator
- D. Cisco Segment Routing Path Computation Element

Answer: A

QUESTION 25

Refer to the exhibit. An engineer implements an automation with Cisco XTC. Which problem results in the 404 Not Found error code on the REST call?

```
curl --request DELETE --url http://10.1.1.1:8080/srpolicy-install --header 'cache-control: no-cache' --  
header 'content-type: application/json'  
--data '{"source": "1.1.1.2", "end-point": "2001:4860::1:1:1:1", "color": 99, "route-distinguisher": 2}'  
<!DOCTYPE html>  
<html>  
<head>  
<title>404 Not Found</title>  
</head>  
<body>  
<h1>Not Found</h1>  
<hr>  
<address> Server at localhost:8080 </address>  
</body>  
</html>
```

- A. The resource that you are trying to delete does not exist.
- B. Port 8080 is not enabled on XTC.
- C. XTC does not offer any APIs.
- D. You must change the request method.

Answer: A

Explanation:

The resource that you are trying to delete does not exist.
Error 404 is the object or file that doesn't exist.

QUESTION 26

Which command configures the remote peer when the Cisco IOS XR Traffic Controller is used?

- A. peer-sync ipv4 192.168.0.3
- B. state ipv4 192.168.0.3
- C. peer ipv4 192.168.0.3
- D. state-sync ipv4 192.168.0.3

Answer: D

QUESTION 27

An automation engineer is trying to configure a destination group to use dial-out telemetry with gRPC on a Cisco IOS XR platform. The template created is failing to apply. Which parameters must be configured?

- A. source IP address, source port, encoding, and sampling interval
- B. source IP address, source port, encoding, and protocol
- C. destination IP address, destination port, encoding, and sensor path
- D. destination IP address, destination port, encoding, and protocol

Answer: D

QUESTION 28

Which two use cases are valid for Cisco WAN Automation Engine? (Choose two.)

- A. deployment of SR policies
- B. integration with Cisco XTC
- C. what-if analysis
- D. device manager
- E. network controller

Answer: BC

QUESTION 29

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

Answer: BE

QUESTION 30

Which encoding does NETCONF is Cisco IOS XE Software support?

- A. JASON AND XML
- B. YAML
- C. JSON
- D. XML

Answer: D