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Vendor:Cisco

Exam Code:300-535

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

Version:Demo

QUESTION 1

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.

Correct Answer: B

QUESTION 2

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

Correct Answer: AB

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2018/pdf/BRKSPG-2008.pdf> Slide 16

QUESTION 3

```

from ydk.services import CRUDService
from ydk.providers import NetconfServiceProvider
from ydk.models.cisco_ios_xr import Cisco_IOS_XR_shellutil_oper \
    as xr_shellutil_oper
from datetime import timedelta

if __name__ == "__main__":
    """Main execution path"""
    provider = NetconfServiceProvider(address="10.0.0.1",
                                     port=830
                                     username = "admin",
                                     password = "admin",
                                     protocol = "ssh")

    crud = CRUDService()
    system_time = xr_shellutil_oper.SystemTime()
    system_time = crud.read(provider, system_time)
    print("System uptime is" +
          str(timedelta(seconds=system_time.uptime.uptime)))
    exit()

```

Refer to the exhibit. Regarding the Python script using YDK, what is the result for a device that is running Cisco IOS XR Software?

- A. retrieves the system time
- B. configures the system time
- C. prints the uptime of the CRUDService
- D. prints the system uptime

Correct Answer: D

QUESTION 4

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=81hpFjIZ_9andsig=ACfU3U1EAEwjRMBnCiHNESBwFLHvZDHkBWandhl=enandsa=Xandved=2ahUKEwjirNeZptfpAhXDoFsKHeqMBFsQ6AEwBHoECAsQAQ#v=onepageandq=messages%20and%20payload%20encodings%20does%20gNMI%20useandf=false

QUESTION 5

```
RP/0/RP0/CPU0:XR_CORE666#conf t
Fri May 19 10:45:31.136 UTC
RP/0/RP0/CPU0:XR_CORE666(config)#pce
RP/0/RP0/CPU0:XR_CORE666(config-pce)#address ipv4 10.10.0.15
RP/0/RP0/CPU0:XR_CORE666(config-pce)#commit
```

Refer to the exhibit. XTC has been configured by an engineer. What does the IPv4 address represent on the snippet?

- A. local address of the router on which it listens for PCEP
- B. configured for the local peer for state synchronization
- C. destination address of the router on which it listens for PCEP
- D. configured for the remote peer for state synchronization

Correct Answer: A

Reference: <http://ipnetworkgeek.blogspot.com/2017/05/path-disjointness-with-ios-xr-traffic.html>

QUESTION 6

```
a = 11
b = 22
c = 33
d = 44

def swap1(a, b) :
    if a == b:
        return 2 * a, b
    else:
        a, b = b, a
        return a, b

def swap2(c, d) :
    if c < d:
        print(d, 2 * c)
    else:
        print(44, 22)
```

Refer to the exhibit. Which command prints out (44, 22) when this code is run on Python 3?

- A. `print(swap1(d, b))`
- B. `print(swap2(a, b))`
- C. `print(swap1(b, d))`
- D. `print(swap2(22, 44))`

Correct Answer: C

QUESTION 7

```

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

QUESTION 8

```
#!/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.')
```

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?

- 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.

Correct Answer: D

QUESTION 9

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 10

Which schema allows device configuration elements to be enclosed within a remote procedure call message when NETCONF is implemented?

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

Correct Answer: B

Reference: <https://books.google.com/books?id=jWVsAQAAQBAJandpg=PA21andlpg=PA21anddq=schema+allows+device+configuration+elements+to+be+enclosed+within+a+remote+procedure+call+message+when+NETCONF+is+implementedandsource=blandots=mcS25iO8ecandsig=ACfU3U08SQUN0Y7L2-An37GjHRqBzLGFUAandhl=enandsa=Xandved=2ahUKEwir16OF4dbpAhV7GjQIHc64B5kQ6AEwAHoECAoQAQ#v=onepageandq=schema%20allows%20device%20configuration%20elements%20to%20be%20enclosed%20within%20a%20remote%20procedure%20call%20message%20when%20NETCONF%20is%20implementedandf=false>

QUESTION 11

What are two benefits of using Cisco NSO? (Choose two.)

- A. It abstracts the device adapter and complex device logic from the service logic.
- B. It uses load balancing services for better traffic distribution.
- C. It easily integrates into northbound systems and APIs.
- D. It can replace the CI/CD pipeline tools.
- E. It automatically discovers all deployed services.

Correct Answer: AC

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2018/pdf/BRKDCN-2498.pdf>

QUESTION 12

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/>