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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://10.1.1.1:8080/restconf/data/l3vpn:vpn/l3vpn:vpn-test",  
  "method": "POST",  
  "headers": {  
    "Content-Type": "application/yang.data.json",  
    "Accept": "application/yang.data.json",  
    "Cache-Control": "no-cache",  
    "Host": "10.1.1.1:8080",  
    "User-Agent": "curl/7.74.0" }  
}
```

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", "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 XTCC
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. YANGE
E. json
Answer: BE
QUESTION 30 Which encoding does NETCONF is Cisco IOS XE Software support?
A. JASON AND XML
B. YAMLC
C. JSOND
D. XML
Answer: D
QUESTION 31 Refer to the exhibit. What is the result of the Ansible task?

```

- name: configure global bgp as 65000
  iosxr_bgp:
    bgp_as: 65000
    router_id: 1.1.1.1
    neighbors:
      - neighbor: 182.168.10.1
        remote_as: 500
        description: PEER_1
      - neighbor: 192.168.20.1
        remote_as: 500
  address_family:
    - name: ipv4
      cast: unicast
      networks:
        - network: 192.168.2.0/23
        - network: 10.0.0.0/8
      redistribute:
        - protocol: ospf
          id: 400
          metric: 110
    
```

A. It configures a Cisco IOS XR router with BGP AS65000 with two neighbors and redistributes OSPF into BGP.
 B. It validates the BGP configuration on a Cisco IOS XR router, but it is a read-only module and cannot modify the configuration on the router.
 C. It validates the BGP configuration on a Cisco IOS XE router, but it is a check mode-only network module and cannot modify the configuration on the router.
 D. It configures a Cisco IOS router with BGP on AS500 and redistributes OSPF into BGP.

QUESTION 32 Which schema allows device configuration elements to be enclosed within a remote procedure call message when NETCONF is implemented?
 A. JSON-RPCB. XMLC. YAMLD. JSON

QUESTION 33 What is a key feature of YANG?
 A. use identificationB. error predictionC. JAVA compatibilityD. reusable types and groupings

QUESTION 34 What are two characteristics of the NFV architecture approach? (Choose two.)
 A. It decouples the network functions from proprietary hardware appliances.
 B. It provides 70% more efficiency of network infrastructure.
 C. It is specially designed for Internet providers.
 D. It is specially designed for telecommunications service providers.
 E. It typically includes a hypervisor.

QUESTION 35 A Cisco NSO service has just been deployed. Which Cisco NSO CLI command is used to inspect the resulting device configuration changes before the changes are pushed to the network?
 A. show service impactB. commit dry-run outformat nativeC. pseudo-commitD. show dry-run output

QUESTION 36 Which two communication protocols does Cisco IOS XR support? (Choose two.)
 A. XR-APIB. XMLC. NETCONFD. NX-APIE. gRPC

QUESTION 37 Refer to the exhibit. XTC has been configured by an engineer. What does the IPv4 address represent on the snippet?

```

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
    
```

A. local address of the router on which it listens for PCEPB. configured for the local peer for state synchronization
 C. destination address of the router on which it listens for PCEPD. configured for the remote peer for state synchronization

QUESTION 38 An engineer is deploying a Python script to manage network devices through SSH. Which library based on Paramiko is used?
 A. sshmikoB. paramiko.agentC. libssh2D. netmiko

QUESTION 39 Refer to the exhibit. Regarding the Python script using YDK, what is the result for a device that is running Cisco IOS XR Software?

```
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",
    provider_username="admin",
    provider_password="admin",
    provider_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()
```

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

Answer: D

QUESTION 40 What is a benefit of Ansible for automating IOS XE or IOS XR platforms?

A. Playbooks can be written in XML format.
B. It has agent support.
C. It supports asynchronous orchestration.
D. It offers native orchestration support for Cisco platforms.

Answer: D

QUESTION 41 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

Answer: CE

QUESTION 42 Which two commands generate a template using Cisco NSO to build a service package? (Choose two.)

A. show running-config devices device ce-ios config ios:interface Loopback 0 | display template.xml
B. show running-config devices device ce-ios config ios:interface Loopback 0 | display xml | save template.xml
C. request running-config devices device ce-ios config ios:interface Loopback 0 | display xml
D. show running-config devices device ce-ios config ios:interface Loopback 0 | display xml

Answer: BE

QUESTION 43 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

Answer: D

QUESTION 44 Which two network configuration protocols use XML as a data representation format? (Choose two.)

A. NETCONF
B. CORBA
C. TOSGAD
D. SNMP
E. RESTCONF

Answer: AE

QUESTION 46 Refer to the exhibit. What is the cause of the status of the interface subscription?

```
RP/0/RP0/CPU0:iosxrv-1#show telemetry model-driven
Fri Aug 23 20:39:44.122 UTC
Subscription:          Interface          State: N
-----
Sensor groups:
Id                    Interval(ms)    State
Interface-Counters  30000           Running

Destination Groups:
Id                    Encoding          Transport
DEST1                 self-describing-gpb  grpc
TLS:                  172.16.1.12
```

A. The router cannot establish a gRPC connection with the collector.
B. The sensor-group "Interface-Counters" does not contain a valid YANG path.
C. The router is waiting for a collector to dial in.
D. This is the expected state of an active subscription.

Answer: B

QUESTION 47 Refer to the exhibit. What must be added after the last line of the Ansible playbook to check if the output contains "IOS-XR"?

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

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

Answer: B

QUESTION 48 Refer to the exhibit. An automation engineer has created a RESTCONF POST to configure network devices. Which two tasks are accomplished when the code is executed? (Choose two.)

```
"request": {
  "url": "https://10.10.10.10:443/restconf/data/cisco-ietf-netconf:configuration",
  "method": "POST",
  "body": {
    <snip>
```

A. If the specified configuration is already in the running configuration, the command is replaced by this request.
B. If the specified configuration is already in the running configuration, the command is not replaced by this request.
C. If the specified configuration is already executed in the running configuration, the command is merged with this request.
D. If the specified configuration is already in the running configuration, the command updates this request.
E. If the specified configuration is not on the device, the POST request creates it.
Answer: B
Explanation: If the data resource already exists, then the POST request MUST fail and a "409 Conflict" status-line MUST be returned. The error-tagvalue "resource-denied" is used in this case.

<https://tools.ietf.org/html/rfc8040#section-4.4>

QUESTION 49 Refer to the exhibit. What is the effect of the script on the device?

```
def configure_ip_
    url = BAS
    i = inte
    }
    data = Or
    {
        ("ie
    Ord
}

WWW

),
)
)
response = requ
url, auth=(U
)
print(response.
configure_ip_addr
```

A. All interfaces except GigabitEthernet2 are reset to their default configurations.
B. It replaces the entire configuration for GigabitEthernet2 on the device using RESTCONF.
C. It merges the new configuration with the existing configuration on the device using RESTCONF.
D. It compares the configuration to the device. If it matches, the device sends back an HTTP 204 status code.
Answer: C
QUESTION 50 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.
Answer: AC

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