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300-835

Implementing Automation for Cisco Collaboration Solutions

Version 1.0

Sections
1. Network Programmability Foundation
2. Unified Communication
3. Cloud Collaboration
4. Collaboration Endpoints
5. Meetings

Exam A

QUESTION 1

What is a benefit of using Python virtual environments?

A. It isolates dependencies of every project from the system and each other.
B. It allows Python to differentiate between package versions.
C. It frees the developer from installing the project dependencies.
D. It puts dependent packages in a common site-packages directory.

Correct Answer: A
Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 2
DRAG DROP

Drag and drop the bootkit functions from the left onto the correct actions on the right.

Select and Place:

Correct Answer:

Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 3

```
#!/usr/bin/env python
import os
import requests

token = os.environ.get('ACCESS_TOKEN')
url = "https://api.ciscospark.com/v1/messages"
roomId = "abcde12345"

mentionName = "                    "

markdownTxt = mentionName + ", your registration is confirmed"

payload = { "roomId: roomId, "markdown": markdownTxt }

headers = {
    "Authorization": "Bearer " + token,
    "Content-type": "application/json"
}

response = requests.request("POST", url, data=payload, headers = headers)
```

Refer to the exhibit. Which code snippet is used to mention the bot CiscoDevNet@webex.bot?

A. <@personEmail.CiscoDevNet@webex.bot>
B. @CiscoDevNet@webex.bot

C. @personEmail.CiscoDevNet@webex.bot

D. (@personEmail.CiscoDevNet@webex.bot)

Correct Answer: B
Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 4
DRAG DROP

An administrator is creating a script using the Python xAPI over WebSockets (pyxows) library. The goal of the script is to capture an event generated by a UI Extensions action button (former In-Room Control Panel). When the action button is clicked, the script displays an alert that says that the button ID was clicked. Drag and drop the code snippets into the locations to complete the script:

Select and Place:

Answer Area

```
import xows
import asyncio

async def start(ip, usr, pw):
    async with xows.XoWSClient(ip,username=usr, password=pw) as client:
        async def callback(data,id_):
            [                                        ]
            [                                        ]
        [                                            ]
        await client.wait_until_closed()
async def task():
    [                                        ]

[                                        ]
```

```
await client.xCommand(['UserInterface','Message','Alert','Display'], Title=panelid, Text= "Was clicked")
```

```
panelId = data['Event']['UserInterface']['Extensions']['Panel']['Clicked']['PanelId']
```

```
await start('10.10.10.1','admin','T357c45e')
```

```
await client.subscribe(['Event','UserInterface','Extensions','Panel','Clicked'], callback, True)
```

```
asyncio.run(task())
```

Correct Answer:

Answer Area

```
import xows
import asyncio

async def start(ip, usr, pw):
    async with xows.XoWSClient(ip,username=usr, password=pw) as client:
        async def callback(data,id_):
            panelId = data['Event']['UserInterface']['Extensions']['Panel']['Clicked']['PanelId']
            await client.xCommand(['UserInterface','Message','Alert','Display'], Title=panelid, Text= "Was clicked")
        await client.subscribe(['Event','UserInterface','Extensions','Panel','Clicked'], callback, True)
        await client.wait_until_closed()
async def task():
    await start('10.10.10.1','admin','T357c45e')
asyncio.run(task())
```

```
await client.xCommand(['UserInterface','Message','Alert','Display'], Title=panelid, Text= "Was clicked")
```

```
panelId = data['Event']['UserInterface']['Extensions']['Panel']['Clicked']['PanelId']
```

```
await start('10.10.10.1','admin','T357c45e')
```

```
await client.subscribe(['Event','UserInterface','Extensions','Panel','Clicked'], callback, True)
```

```
asyncio.run(task())
```

Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 5
DRAG DROP

Drag and drop the code to complete the **curl** command that creates a halfwake brand logo using the xAPI HTTP API. Not all options are used. Code can be used more than one time.

Select and Place:

Correct Answer:

Section: Network Programmability Foundation Explanation

Explanation/Reference:
QUESTION 6 Which two statements describe advantages of consuming APIs with asynchronous versus synchronous requests?
(Choose two.)

A. All Cisco APIs are designed to be invoked asynchronously.

B. APIs respond more quickly when invoked asynchronously.
C. Asynchronous request coding is less complex.
D. Application threads do not block waiting for an asynchronous response.
E. Multiple asynchronous requests can be sent simultaneously.

Correct Answer: BD
Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 7 Using the Finesse REST APIs coupled with the Finesse notifications, which two use cases can be accomplished?
(Choose two.)

A. Add video calling capabilities to an existing application such as a CRM.
B. Add outbound call capabilities to an existing application such as a CRM.
C. Develop a secure monitoring application that captures the agent's states and dialog information of every agent in the contact center system.
D. Develop a fully functioning custom agent desktop that has call control, workflows, and client logging.
E. Develop a fully functioning custom agent desktop for chat, email, and SMS interactions including the content of the chat, email, and SMS.

Correct Answer: BE
Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 8 Which two characteristics of REST APIs?
(Choose two.)

A. Resources are accessed using Uniform Resource Identifiers.
B. API operations for Create/Read/Update/Delete are mapped to standard HTTP methods.
C. Cookies are used for the duration of the session.
D. REST API extends Remote Procedure Call.
E. The server manages the session state.

Correct Answer: AB
Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 9
DRAG DROP

Drag and drop the elements from the left onto the correct descriptions on the right. Not all options are used.

Select and Place:

Correct Answer:

Section: Network Programmability Foundation
Explanation

Explanation/Reference:

QUESTION 10

```
def my_function(listOfNumbers, b):
    total1 = b
    total2 = 0

    for num in listOfNumbers:
        if num < 5:
            total1 += num
        else:
            total2 += num

    return total1

listOfNums = [4, 3, 9, 1, 7, 2, 9, 0, 6, 8, 5]
a = my_function(listOfNums, 3)
print(a)
```

Refer to the exhibit. Which value of "a" is displayed when the Python code is executed?

A. 10
B. 13
C. 18
D. 21

Correct Answer: B
Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 11
DRAG DROP

Drag and drop the git commands/steps from the left into the correct order on the right to make changes and submit code to a remote repository.

Select and Place:

Correct Answer:

Section: Network Programmability Foundation Explanation

Explanation/Reference:

QUESTION 12 What are two keys features of Cisco Unified Communications Manager Serviceability APIs?
(Choose two.)

A. save alarms and events for troubleshooting
B. connect to serial console on phone hardware
C. configure firewall rules on phone hardware
D. scan servers and devices for malware
E. real-time monitoring of components

Correct Answer: AE
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 13
Which two files must be downloaded from a Cisco Unified Communications Manager server in order to build requests for the AXL API? (Choose two.)

A. AXLEnums.xsd
B. AXL_CUCM.xsd
C. AXLSoap.xsd
D. CUCM_AXL.json
E. AXLWSDL.xml

Correct Answer: AC
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 14
Which statement describe the function of the **perfmonCollectCounterData** operation used in the Cisco Unified Communications Manager Serviceability Perfmon API?

A. It returns the Perfmon data for all counters that belong to an object on a particular host.
B. It collects files from RTMT.
C. It collects the Perfmon data for all counters that have been added with perfmonAddCounter to the session handle returned from perfmonOpenSession.
D. It returns the list of available Perfmon objects and counters on a particular host.

Correct Answer: A
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 15 Which two capabilities can be implemented in a custom application using the Cisco Unified IP Phone Services API?
(Choose two.)

A. Authenticate the phone to the network.
B. Display corporate directory information.
C. Play multicast messages.D. Upgrade phone firmware.
E. Create new phone devices.

Correct Answer: CE
Section: Unified Communication
Explanation

Explanation/Reference:
QUESTION 16
DRAG DROP

Drag and drop the XML snippets onto the AXL request to build a request that sets the cluster-wide Call Park Reversion Timer to 2 minutes. Not all options are used.

Select and Place:

Correct Answer:

Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 17
DRAG DROP

Drag and drop the code snippets to create a valid AXL API <addUCService> request. Not all options are used.

Select and Place:

Answer Area

```
┌─────────────────────────────────────────────────┐
│                                                 │
└─────────────────────────────────────────────────┘
Content-Type: text.xml
┌─────────────────────────────────────────────────┐
│                                                 │
└─────────────────────────────────────────────────┘
Content-Length: 726
Host: cucm.cisco.com:8443

Authorization: ┌──────────────────────────────────────────┐
               │                                          │
               └──────────────────────────────────────────┘

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:ns="┌────────────────────────────────────────┐">
          │                                        │
          └────────────────────────────────────────┘

  <soapenv:Body>
    <ns:addUcService sequence="1">
      <ucService>
        <serviceType>Video Conference Scheduling Portal</serviceType>
        <productType>Telepresence Management System</productType>
        <name>testConferenceSchedulingPortal1</name>
        <hostnameorip>10.10.10.12</hostnameorip>
        <port>8443</port>
        <protocol>https</protocol>
        <ucServiceXml>
          <TmsPortalUrl>http://10.10.10.12/</TmsPortalUrl>
        </ucServiceXml>
      </ucService>
    <ns:addUcService>
  </soapenv:Body>
</soapenv:Envelope>
```

GET https://cucm.cisco.com:8443/axl/HTTP/1.1	AXL-Version: "CUCM:DB ver=11.5 addUcService"
Basic YWRtaW46cGFzc3dvcmQ=	Bearer YWRtaW46cGFzc3dvcmQ=
POST https://cucm.cisco.com:8443/axl/HTTP/1.1	SOAPAction: "CUCM:DB ver=12.5 addUcService"
http://www.cisco.com/AXL/API/12.5	http://www.cisco.com/AXL/API/11.5

Correct Answer:

Answer Area

```
POST https://cucm.cisco.com:8443/axl/HTTP/1.1

Content-Type: text.xml

SOAPAction: "CUCM:DB ver=12.5 addUcService"

Content-Length: 726
Host: cucm.cisco.com:8443

Authorization: Basic YWRtaW46cGFzc3dvcmQ=

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:ns=" http://www.cisco.com/AXL/API/12.5 ">

   <soapenv:Body>
     <ns:addUcService sequence="1">
       <ucService>
         <serviceType>Video Conference Scheduling Portal</serviceType>
         <productType>Telepresence Management System</productType>
         <name>testConferenceSchedulingPortal1</name>
         <hostnameorip>10.10.10.12</hostnameorip>
         <port>8443</port>
         <protocol>https</protocol>
         <ucServiceXml>
           <TmsPortalUrl>http://10.10.10.12/</TmsPortalUrl>
         </ucServiceXml>
       </ucService>
     <ns:addUcService>
   </soapenv:Body>
</soapenv:Envelope>
```

GET https://cucm.cisco.com:8443/axl/HTTP/1.1	AXL-Version: "CUCM:DB ver=11.5 addUcService"
Basic YWRtaW46cGFzc3dvcmQ=	Bearer YWRtaW46cGFzc3dvcmQ=
POST https://cucm.cisco.com:8443/axl/HTTP/1.1	SOAPAction: "CUCM:DB ver=12.5 addUcService"
http://www.cisco.com/AXL/API/12.5	http://www.cisco.com/AXL/API/11.5

Section: Unified Communication
Explanation

Explanation/Reference:
QUESTION 18 After the AXL query ns:updatePhone is used to upgrade a phone configuration successfully, the phone does not reflect the change. Which other method must be performed for the change to take effect?

A. ns:getPhone
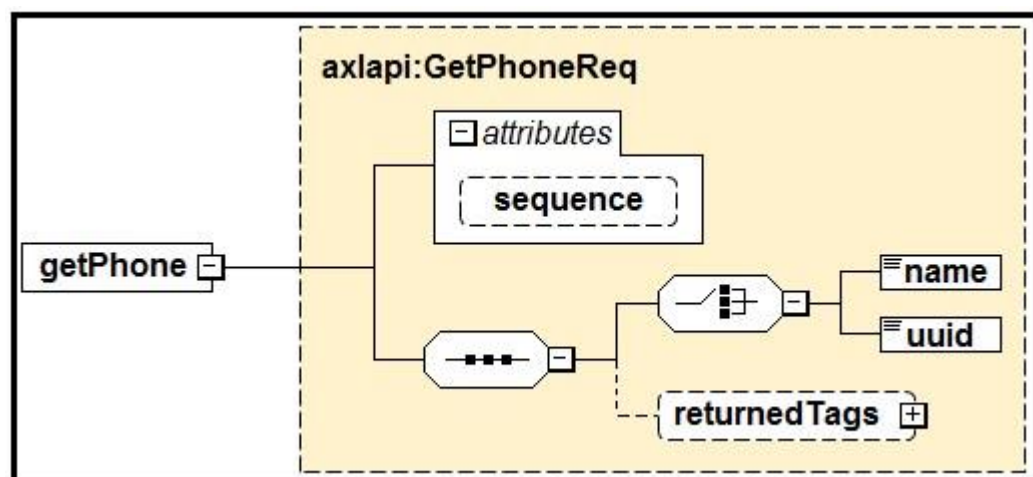B. ns:restartPhoneC. ns:rebootPhone
D. ns:savePhone

Correct Answer: B
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 19

Refer to the exhibit. Based on the schema diagram in the exhibit, which two XML objects are valid AXL <getPhone> request <Body> elements? (Choose two.)

```
<soapenv:Body>
    <ns:getPhone sequence="1">
        <name>BOT209342098</name>
        <returnedtags><model/></returnedtags>
    </ns:getPhone>
</soapenv:Body>

<soapenv:Body>
    <ns:getPhone>
        <name>BOT209342098</name>
        <returnedTags><model/></returnedTags>
    </ns:getPhone>
</soapenv:Body>

<soapenv:Body>
    <ns:getPhone>
        <name>BOT209342098</name>
        <uuid>{2B1931A2-8FC2-A0C2-7282-B88B5A6356A0}</uuid>
    </ns:getPhone>
</soapenv:Body>
```

A.

B.

C.

```xml
<soapenv:Body>
    <ns:getPhone sequence="1">
        <uuid>{2B1931A2-8FC2-A0C2-7282-B88B5A6356A0}</uuid>
    </ns:getPhone>
</soapenv:Body>

<soapenv:Body>
    <ns:getPhone sequence="1">
        <name>BOT209342098</name>
        <returnedTags>All</returnedTags>
    </ns:getPhone>
</soapenv:Body>
```

D.

E.

Correct Answer: E
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 20
DRAG DROP

Drag drop the code to create a valid AXL API script to create a new Route Partition, using the Python Zeep library. Not all options are used.
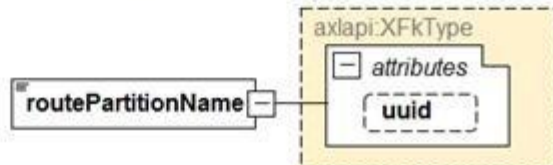
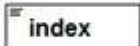**Select and Place:**

Correct Answer:
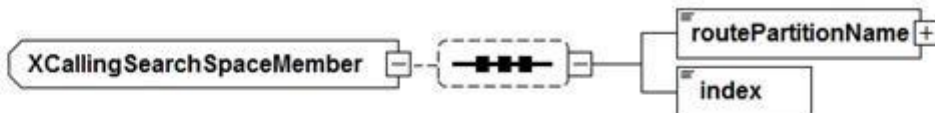
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 21

complexType XCallingSearchSpaceMember	
diagram	XCallingSearchSpaceMember — routePartitionName [+] / index
namespace	http://www.cisco.com/AXL/API/12.5
children	**routePartitionName index**
used by	elements **XCss/members/member UpdateCssReq/removeMembers/member UpdateCssReq/addMembers/member UpdateCssReq/members/member**

source	`<xsd:complexType name="XCallingSearchSpaceMember">`
	`<xsd:sequence minOccurs="0">`
	`<xsd:element name="routePartitionName" type="axlapi:XFkType" minOccurs="1" maxOccurs="1"/>`
	`<xsd:element name="Index" type="axlapi:XInteger" minOccurs="1" maxOccurs="1"/>`
	`</xsd:sequence>`
	`</xsd:complexType>`

element XCallingSearchSpaceMember/routePartitionName

diagram	routePartitionName — axlapi:XFkType / attributes / uuid					
type	**axlapi:XFkType**					
properties	content **complex**					
attributes	Name **uuid**	Type **axlapi:XUUID**	Use **optional**	Default	Fixed	Annotation
source	`<xsd:element name="routePartitionName" type="axlapi:XFkType" minOccurs="1" maxOccurs="1"/>`					

element XCallingSearchSpaceMember/routePartitionName

diagram	index					
type	**axlapi:XInteger**					
properties	content **simple**					
attributes	Name **uuid**	Type **axlapi:XUUID**	Use **optional**	Default	Fixed	Annotation
source	`<xsd:element name="Index" type="axlapi:XInteger" minOccurs="1" maxOccurs="1"/>`					

Refer to the exhibit. When a Calling Search Space is updated and a new member is added, how is a member defined? A.

```
<member uuid="{F6E0CD00-EC18-F16D-32E1-80C9A7A3D602}">
  <routePartitionName uuid="{5F2B2FFD-C7D2-4F30-9EF5-60110B56B939}">pt_translation-
     pattern_n</routePartitionName>
  <index>1</index>
</member>


    <member uuid="{F6E0CD00-EC18-F16D-32E1-80C9A7A3D602}">
      <routePartitionName>
        <uuid>"{5F2B2FFD-C7D2-4F30-9EF5-60110B56B939}"</uuid>
        <name>pt_translation-pattern_n</name>
      </routePartitionName>
      <index>1</index>
    </member>

    <member>
      <routePartitionName uuid="{5F2B2FFD-C7D2-4F30-9EF5-60110B56B939}">pt_translation-
         pattern_n</routePartitionName>
      <index>1</index>
    </member>

    <member">
      <routePartitionName uuid="{5F2B2FFD-C7D2-4F30-9EF5-60110B56B939}">
        <name>pt_translation-pattern_n</name>
      </routePartitionName>
      <index>1</index>
    </member>
```

B.

C.

D.

Correct Answer: D
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 22 Which two use cases can be accomplished using the Finesse JavaScript library? (Choose two.)

A. Integrate customer relationship management capabilities into the Finesse agent desktop.
B. Build a custom browser-based agent desktop.
C. Build a Finesse gadget to add quick dial to the Finesse agent desktop.
D. Build a Finesse gadget to create new agents on the Finesse system.
E. Build a Finesse gadget to configure Finesse log levels for the Finesse administrator console.

Correct Answer: AB
Section: Unified Communication
Explanation

Explanation/Reference:

QUESTION 23
DRAG DROP

Drag and drop the code to add a Webex Teams Space Widget in an existing HTML page. Not all items are used.

Select and Place:

Correct Answer:

Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 24
DRAG DROP

Refer to the exhibit. A developer has implemented ChatOps to a Webex Teams space as described in the exhibit. The Python script that pushes the notifications to the Teams space is shown. Drag and drop the code to complete the script. Not all options are used.

Select and Place:

Correct Answer:

Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 25
How is a message created using Webex Teams REST APIs?

A. POST https://api.ciscospark.com/v1/messages/{messageID}
B. POST https://api.ciscospark.com/v1/messages/
C. GET https://api.ciscospark.com/v1/messages/
D. PUT https://api.ciscospark.com/v1/messages/

Correct Answer: B
Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 26
DRAG DROP

Drag and drop the code snippets into the correct order to create a Python Webex Teams REST API script that performs this sequence of tasks: create a Space, add a user to the Space, post the word "test" in the Space. Assume that the Python "requests" module has already been imported.

Select and Place:

Correct Answer:

Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 27
When a Webex site has single-sign-on enabled, which type of data is required in the body element of an AuthenticateUser XML API Request?

A.   Webex username and password
B.   Webex Teams OAuth access token
C.   JWT token
D.   BOT access token

Correct Answer: B
Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 28
DRAG DROP

Drag and drop the correct items from the right to complete this Python script to automate the creation of Cisco Webex Teams spaces and memberships. Not all options are used.

Select and Place:

Answer Area

```
import requests

def makePost(apiKey, url, body):
    headers = {
        '[          ]': "Bearer " + apiKey,
        'Content-Type': "application/json"
    }
    response = requests.post(url = url, headers = headers, [          ] = body)
    return response

def createSpace(apiKey, roomName):
    url = "https://api.ciscospark.com/v1/rooms/"
    body = {
        "title": roomName
    }
    response = makePost(apiKey, url, body)
    roomId = [          ]
    return roomId


def addMembership(apiKey, roomId, membereshipEmail):
    url = "https://api.ciscospark.com/v1/memeberships/"
    body = {
        "roomId": roomId,
        "[          ]": membershipEmail
    }

    makePost(apikey, url, body)

def main():
    apiKey = input("What is your personal access token? ")
    spacename = input("What is the name of the space you want to create? ")
    membershipEmail = input("What is the email address of the person to add? ")
    roomId = createSpace(apiKey, spaceName)
    addMembership(apiKey, roomId, membershipEmail)

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

Options:

```
response['id']
personEmail
json
data
Authorization
membershipEmail
apiKey
Authentication
OAuth
response.id
response[body]["id"]
```

Correct Answer:

Answer Area

```
import requests

def makePost(apiKey, url, body):
    headers = {
        '  Authorization  ': "Bearer " + apiKey,
        'Content-Type': "application/json"
    }
    response = requests.post(url = url, headers = headers,   data   = body)
    return response

def createSpace(apiKey, roomName):
    url = "https://api.ciscospark.com/v1/rooms/"
    body = {
        "title": roomName
    }
    response = makePost(apiKey, url, body)
    roomId =   response.id
    return roomId


def addMembership(apiKey, roomId, membereshipEmail):
    url = "https://api.ciscospark.com/v1/memeberships/"
    body = {
        "roomId": roomId,
        "  personEmail  ": membershipEmail
    }

    makePost(apikey, url, body)

def main():
    apiKey = input("What is your personal access token? ")
    spacename = input("What is the name of the space you want to create? ")
    membershipEmail = input("What is the email address of the person to add? ")
    roomId = createSpace(apiKey, spaceName)
    addMembership(apiKey, roomId, membershipEmail)

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

response['id']	
personEmail	
json	
data	
Authorization	
membershipEmail	
apiKey	
Authentication	
OAuth	
response.id	
response[body]["id"]	

Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 29

```
import requests

def createUser(apiKey, email, firstName, lastName, displayName):
    url = "https://api.ciscospark.com/v1/people"
    headers = {
        'Authorization': "Bearer " + apiKey,
        'Content-Type': "application/json"
    }
    body = {

    }
    response = requests.post(url = url, headers = headers, json=body)
    return response
```

Refer to the exhibit. Which snippet of code does a user with the administrator role use in the missing "body" section to create a new user in a Webex Teams organization? A.

```
"displayName": displayName,
"firstName": firstName,
"lastName": lastName

"emails": {
    email
},
"displayName": displayName,
"firstName": firstName,
"lastName": lastName

"email": email,
"displayName": displayName,
"firstName": firstName,
"lastName": lastName

"emails": [
    email
],
"displayName": displayName,
"firstName": firstName,
"lastName": lastName
```

B.

C.

D.

Correct Answer: C
Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 30
DRAG DROP

This Python script automates the creation of a Webex Teams space and adds participants to the space. Drag and drop code on the snippet to complete the script. Not all options are used.
Select and Place:

Correct Answer:

Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 31 A Webex Teams bot receives a Webhook payload, which notifies the bot that a message was created in a space. Which two API requests must be issued for the bot to answer the author of the message? (Choose two.)

A. POST /v1/messages
B. GET /v1/messages/{messageId}
C. GET /v1/webhooks/{webhookId}
D. PUT /v1/messages/{messageId}
E. POST /v1/webhooks

Correct Answer: CE
Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 32
DRAG DROP

Drag and drop the code to create a Webex Teams Recents Widget in an existing HTML page. Not all items are used.

Select and Place:

Correct Answer:

Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 33
DRAG DROP

```
POST/HTTP/1.1
Content-Type:application/json; charset=UTF-8
X-Spark-Signature:06edc2e2f6d0a9d504c3f96367687cae0dedefcb
TrackingID: CLIENT_bfe5e832-45a6-4b96-bfd7-8c36122c3c1e_t:45dc3765

{
  "id": "Y2lzY29zcGFyazovL3VzL1dFQkhPT0svYmI5MGE5MDAtNjM4YyYzRiOThhMjk5",
  "name": "exam question",
  "targetUrl": "https://2615c331.ngrok.io",
  "resource": "messages",
  "event": "created",
  "filter": "roomId=Y2lzY29zcGFyazovMGNmNi0xMWVhLTk1ODktNzMyYjA4ZjlhYze1",
  "orgId": "Y2lzY29zcGFyazovL3VzL09kZi05NjQzLTQxN2YtOTk3NC1hZDcyY2FlMGUxMGY",
  "createdBy": "Y2lzY29zcGFyazovL3VzL1lZTdiLTRkNjktOGYzOS0wNGI2YTFlNzE1ZmU",
  "appId": "Y2lzY29zcGFy5YmE1MmZlY2JiMmM3ZDUxNWNiNGEwY2M5MWFh",
  "ownedBy": "creator",
  "status": "active",
  "created": "2019-11-22T07:08:51.934Z",
  "actorId": "Y2lzY29zcGFyazovL3VLTRhNDEtOGM0MS0yYWJkZjg5ZjQ0ZjQ",
  "data": {
    "id": "Y2lzY29zcGFyazovL3VzL01FU1mNy0xMWVhlThhMmMtMjk2M2U5N2E2ZGI3",
    "roomId": "Y2lzY29zcGFyazovMGNmNi0xMWVhLIk1ODktNzMyYjA4ZjlhYzE1",
    "roomType": "group",
    "personId": "Y2lzY29zcGFyazovhNDEtOGM0MS0yYWJkZjg5ZjQ0ZjQ",
    "personEmail": "user@example.com",
    "mentionedPeople": [
      "Y2lzY29zcGFyazovL3VzLjktOGYzOS0wNGI2YIFlNzE12mU"
    ],
    "created": "2019-11-22T07:09:20.700Z"
  }
]
```

Refer to the exhibit. A bot is receiving notifications such as the one displayed in the exhibit. Drag and drop the code onto the snippet to complete the API request that was sent to Webex Teams so that the bot will receive these notifications. Not all options are used.

Select and Place:

Correct Answer:

Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 34

```
import requests

token = 'YzE1NTNiMjEtYzc0ZC00MjE2LWI5ZD_leb65fdf-9643-417f-9974-ad72cat0e10f'
room = 'Y2lzY29zcGFyazovL3VzLIJPT00BmNy0zY2NkLTg4Y2UtNDQwOWJmODBjNWE0'
```

Refer to the exhibit. The code includes the beginning of a short Python script that is constructed to notify the guard in case of an intruder alert. Which code snippet completes the script?

```
request.put('https://api.ciscospark.com/v1/rooms' + room,
            headers = {'Authorization': 'Bearer' + token },
            data = {
            'toPersonEmail' : 'guard2319@perimeter.net',
            'html' : '<b>Warning!</b> Intruder alert in Section 12'
            }
)
request.post('https://api.ciscospark.com/v1/messages',
            headers = {'Authorization': 'Bearer' + token },
            data = {
            'roomId' : 'Perimeter Guard Space',
            'markdown' : '**Warning!** Intruder alert in Section 12'
            }
)
request.post('https://api.ciscospark.com/v1/ rooms' + room,
            headers = {'Authorization': 'Bearer' + token },
            data = {
            'text' : 'Warning! Intruder alert in Section 12'
            'markdown' : '**Warning!** Intruder alert in Section 12'
            }
)
request.post('https://api.ciscospark.com/v1/messages',
            headers = {'Authorization': 'Bearer' + token },
            data = {
            'toPersonEmail' : 'guard2319@perimeter.net',
            'markdown' : '**Warning!** Intruder alert in Section 12'
            }
)
```

A.

B. C.

D.

Correct Answer: A
Section: Cloud Collaboration
Explanation

Explanation/Reference:

QUESTION 35 Which two functions are provided by the Java-based computer telephony applications
API? (Choose two.)

A. Provide call blocking and screening for applications.
B. Provide analytics about Cisco Unified Communications Manager endpoints and users.
C. Control and observe Cisco Unified Communications Manager phones.
D. Route calls by using computer telephony integration ports and route points (virtual devices).
E. Allow provisioning of Cisco Unified Communications Manager endpoints and users.

Correct Answer: DE
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 36
Which type of endpoint is used by the Cisco Unified JTAPI implementation in Cisco Unified Communications Manager?
A. gateways
B. gatekeepers
C. phones
D. SIP trunks

Correct Answer: C
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 37

```
import xows
import asyncio

async def start(ip, usr, pw):
    async with xows.XoWSClient(ip,username=usr, password=pw) as client:
        async def callback(data, id_):
            if id_ == 0:
                <SNIPPET>

        await client.subscribe(['Status', 'Audio', 'Volume'], callback, True)
        await client.wait_until_closed()

asyncio.run(start('10.10.10.1', 'admin', 'T357c45e'))
```

Refer to the exhibit. An administrator is creating a script using the Python xAPI over WebSockets(pyxows) library. The goal of this script is to monitor the volume of the endpoint and set the volume to 60 whenever the volume has been set higher than that amount. Which code snippet accomplishes this task when it is added? A.

```
if data ['Status']['Audio']['Volume'] > 60:
    await client.xCommand(['Audio', 'Volume', 'Set'], Level=60)

if data ['Status']['Audio']['Volume'] > 60:
    await client.xGet(['Status', 'Audio', 'Volume']))

if data ['Status']['Audio']['Volume'] > 60:
    await client.subscribe(['Status', 'Audio', 'Volume'].callback, Level=60))

if data ['Status']['Audio']['Volume'] > 60:
    await client.xSet(['Configuration', 'Audio', 'DefaultVolume'], 60))
```

B.

C.

D.

Correct Answer: A
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 38
Which two Webex technologies can be used to embed voice and video collaboration into a company web page? (Choose two.)

A. Webex Teams Widgets
B. Webex Teams Browser SDK
C. Webex Meetings XML API
D. Webex Teams REST API
E. Webex Teams Java SDK
Correct Answer: AC
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 39 Which statement is true for JavaScript Macros deployed on a Cisco
Collaboration room device?

A. Macros can register to receive any event that is local to the device.
B. There is no hard limit to the number of macros that can be deployed.
C. A macro can store data using a local JavaScript datastore.
D. Macros execute in the order defined in the Macro Editor.

Correct Answer: C
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 40

When the behavior of a Cisco collaboration device is customized, which use case requires an external control system because implementing JavaScript macro does not suffice?

A. Add a Join Webex meeting button to the touch panel.
B. Move the shutters up and down.
C. Trigger a "room-reset" to restore default configurations.
D. Implement an in-room control panel for speed-dialing.

Correct Answer: D
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 41

```
import xows
import asyncio

async def start(ip, usr, pw):
    async with xows.XoWSClient(ip, username=usr, password=pw) as client:
        async def callback(data, id_):
            print(f'Feedback {id}(Id {id_}): {data}')



        await client.wait_until_closed()

async def task():
    await start('10.10.10.1, 'admin', 'T357c45e')

asyncio.run(task())
```

Refer to the exhibit. This Python script uses the websocket-based, xAPI library "pyxows' to monitor and print event details to the console when users interact with UI Extension/In-Room Control 'Action Buttons' deployed to the Touch-10 interface of a Webex room device. Which two code snippets successfully capture such events? (Choose two.)

A. **await client.xEvent(['Event', '**'], callback)**
B. **await client.subscribe(['Event', 'ActionButton', 'Clicked'], callback)**
C. **await client.subscribe(['Event', '**'], callback)**
D. **await client.xEvent(['Event', 'UserInterface', 'Extensions', 'Panel', 'Clicked'], callback)**
E. **await client.subscribe(['Event', 'UserInterface', 'Extensions', 'Panel', 'Clicked'], callback)**

Correct Answer: DE
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 42

```
<xsd:element name="associatedDevices" minOccurs="0" maxOccurs="1">
  <xsd:annotation>
   <xsd:documentation>Also known as controlled devices.</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence minOccurs="0">
      <xsd:element name="device" type="axlapi:String50" minOccurs="0" maxOccurs="unbounded">
        <xsd:annotation>
          <xsd:documentation>Name of device.</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="primaryExtension" minOccurs="0" maxOccurs="1">
  <xsd:annotation>
   <xsd:documentation>Only DNs associated with the associatedDevices of the User can be used as primary extension.</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence minOccurs="0">
      <xsd:element name="pattern" type="axlapi:String255" minOccurs="0" maxOccurs="1">
        <xsd:annotation>
          <xsd:documentation>DN or Pattern.</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="routePartitionName" type="axlapi:String50" minOccurs="0" maxOccurs="1">
        <xsd:annotation>
          <xsd:documentation>Route Partition to which the DN is associated.</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Refer to the exhibit. The exhibit shows the XML schema to associate a device for the AddUser operation in AXL. Which XML snippet is correct to associate a device with name "SEP151515151515"? A.

```
<associatedDevices>
  <device name="SEP151515151515">
<associatedDevices>

<routePartitionName>
  <device>SEP151515151515</device>
</routePartitionName>

<routePartitionName>
  <device name="SEP151515151515">
</routePartitionName>
```

B.

C.
```
<associatedDevices>
   <device>SEP151515151515</device>
```
D. `<associatedDevices>`

Correct Answer: D
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 43
DRAG DROP

Drag and drop the commands from the left onto the **curl** command to create a custom branding message using the xAPI HTTP API. Not all options are used.

Select and Place:

Correct Answer:

Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 44

```
import requests

requests.post('[            ]',
              verify = False,
              auth = ( 'integrator', 'integrator' ),
              headers = { 'Content-Type': 'text/xml' },
              data = '''<Configuration>
                          <UserInterface>
                              <CustomMessage>New Welcome Message</CustomMessage>
                          </UserInterface>
                        </Configuration>'''
)
```

Refer to the exhibit. This exhibit is based on the simple Python script to update a Webex registered room device (local IP = 10.10.20.153) with a new custom half-wake message. What is the URL to complete the requests.post() method?

A. http://10.10.20.153:22/
B. http://10.10.20.153/jsxapi
C. http://api.webex.com/v1/ui
D. http://10.10.20.153/putxml

Correct Answer: D
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 45
An In-Room Control Panel can be configured as "global" (always available). Which order panel type is supported?

A. Background
B. Do Not Disturb
C. Never
D. Out-of-Call

Correct Answer: D
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 46

```
from pyxows import xows
import asyncio

async def main():

    async with xows.XoWSClient( '10.10.20.153', 'integrator', 'integrator' ) as client:

        async def callback( data, id ):
            print( f'Call status event: { data }' )

        ┌─────────────────────────────────────────────────────┐
        │                                                     │
        └─────────────────────────────────────────────────────┘

        await client.wait_until_closed()

asyncio.run( main() )
```

Refer to the exhibit. This exhibit is a simple Python scrip to monitor call activity for a local Webex room device. Which code snippet listens for call events and completes the script?

A. await client.xfeedback(['Status', 'Call', 'Status'], callback, False)
B. await client.subscribe(['Feedback', 'Call', 'Status'], callback, False)
C. await client.subscribe(['Status', 'Call', 'Status'], callback, False)
D. await client.xfeedback(['Feedback', 'Call', 'Status'], callback, False)

Correct Answer: C
Section: Collaboration Endpoints
Explanation

Explanation/Reference:

QUESTION 47
Which two scenarios could be automated by combining the Webex Meetings XML API with other API-enabled systems? (Choose two.)

A. scheduling new-hire orientation meetings as part of an HR system workflow B.
triggering Webex meeting recording when the host disconnect from the meeting.

C. automatically launching the weekly Webex scrum meeting on Mondays at 9 AM
D. reassigning an employee's scheduled Webex meeting to their manager then they leave the companyE. muting users in a Webex meeting when their Cisco Jabber
presence status transitions to Away

Correct Answer: AE
Section: Meetings
Explanation
Explanation/Reference:

QUESTION 48
DRAG DROP

A small Python script is constructed that creates a Webex Meeting for John Doe scheduled for the current time. Drag and drop the code snippets at the bottom onto the areas of the source code exhibit to create a program. Not all options are used.

Select and Place:

Correct Answer:

Section: Meetings
Explanation

Explanation/Reference:

QUESTION 49

```xml
<?xml version="1.0" encoding = "UTF-8"?>
<serv:message xmlns:serv="http://www.webex.com/schemas/2002/06/service"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
     <header>
          <securityContext>
            <siteName>apidemoeu</siteName>
            <webExID>alice@example.com</webExID>
            <sessionTicket>AAABb6TooBMAABUYA0gAKEgyU0sAAAAE9FpXDKRKO</sessionTicket>
          </securityContext>
     </header>
     <body>



     </body>
</serv:message>
```

Refer to the exhibit. Alice is a Webex Meetings admin for her organization. Which code snippet completes a Webex Meetings XML API request that returns all users? A.

```
<bodyContent xsi:type="java:com.webex.service.binding.user.GetUser">
<webExID></webExID>
</bodyContent>

<bodyContent xsi:type="java:com.webex.service.binding.user.LstsummaryUser">
</bodyContent>

<bodyContent xsi:type="java:com.webex.service.binding.user.GetUser">
</bodyContent>

<bodyContent xsi:type="java:com.webex.service.binding.user.LstsummaryUser">
<webExID>*</webExID>
</bodyContent>
```

B.

C.

D.

Correct Answer: A
Section: Meetings
Explanation
Explanation/Reference:

QUESTION 50 What is the expiration time for a Cisco Webex Meeting API key to access the Webex API as an anonymous user?

A. 3 months
B. 12 hours
C. one week
D. 6 months

Correct Answer: D
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 51 Which URI for XML APIs is used in Cisco Webex Meetings to manage users, meetings, events, and trainings?

A. https://api.webex.com/v1/
B. https://api.webex.com/WBXService/XMLService
C. https://api.webex.com/v1/meetings
D. https://api.webex.com/MeetingsService/XMLService

Correct Answer: B
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 52
DRAG DROP

Drag and drop the code to create a valid Cisco Meeting Server REAST API Python script that creates a CMS coSpace and prints the URI to the console. Not all options are used.

Select and Place:

Correct Answer:

Section: Meetings
Explanation

Explanation/Reference:

QUESTION 53 Which Cisco Meeting Server REST API object resource is used to retrieve active
call information?

A. /activecalls
B. /calls
C. /getactivecalls
D. /callProfiles

Correct Answer: B
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 54

```
<xsd:complexType name ="metaDataType">
  <xsd:sequence>
    <xsd:element name="confName" type="xsd:string" minOccurs="0"/>
    <xsd:element name="meetingType" type="xsd:long" default="-1" minOccurs="0"/>
    <xsd:element name="agenda" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxlength value="2500"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="greeting" type="xsd:string" minOccurs="0"/>
    <xsd:element name="location" type="xsd:string" minOccurs="0"/>
    <xsd:element name="invitation" type="xsd:string" minOccurs="0"/>
    <xsd:element name="setNonMTOptions" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sessionTemplate" type="com:sessionTemplateType" minOccurs="0"/>
    <xsd:element name="isInternal" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Refer to the exhibit. Based on this Webex Meetings XML API schema snippet, which XML object is a valid <metaData> element? A.

```
<metaData>
   <confName>Sample Meeting</confName>
   <meetingType>Event Center</meetingType>
   <agenda>Coding 101</agenda>
   <isInternal>Internal</isInternal>
</metaData>

<metaData>
   <confName>Sample Meeting</confName>
   <meetingType>105</meetingType>
   <agenda>Coding 101</agenda>
   <isInternal>true</isInternal>
</metaData>

<metaData>
   <confname>Sample Meeting</confname>
   <meetingType>105</meetingType>
   <agenda>Coding 101</agenda>
   <isInternal>true</isInternal>
</metaData>
```

B. C.

```
<metaData>
   <confName>Sample Meeting</confName>
   <meetingType>Event Center</meetingType>
   <agenda>Coding 101</agenda>
   <isInternal>no</isInternal>
</metaData>
```

D.

Correct Answer: C
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 55
DRAG DROP

The Python script executes a REST API to retrieve information from the Cisco Meeting Server about the call with an identifier of "987654321". Drag and drop the code onto the snippet to complete the Python script. Not all options are used.

Select and Place:

Correct Answer:

Section: Meetings
Explanation

Explanation/Reference:

QUESTION 56

```
<?xml version="1.0"?>
<inboundDialPlanRules total="3">
    <inboundDialPlanRule id="eedeeca5-c73b-441e-bc5a-71d9b256180b">
        <domain>cms.heleus.lab</domain>
        <priority>100</priority>
    </inboundDialPlanRule>
    <inboundDialPlanRule id="647511a0-0c7d-484f-8796-ee52dd3128f1">
        <domain>space.heleus.lab</domain>
        <priority>2</priority>
    </inboundDialPlanRule>
    <inboundDialPlanRule id="2c5662ab-7e5a-45a8-a133-5f4d6c6cb509">
        <domain>cms.lab</domain>
        <priority>1</priority>
    </inboundDialPlanRule>
</inboundDialPlanRules>
```

Refer to the exhibit. Which API call made to Cisco Meeting Server removes the inbound dial plan rule matching cms.lab domain?

A. DELETE to /api/v1/inboundDialPaInRules/ with body attribute id="2c5662ab-7e5a-45a8-a133-5f4d6c6cb509".
B. DELETE to /api/v1/inboundDialPaInRules/2c5662ab-7e5a-45a8-a133-5f4d6c6cb509.
C. PUT to /api/v1/inboundDialPaInRules/2c5662ab-7e5a-45a8-a133-5f4d6c6cb509 with body attribute delete="True".
D. PUT to /api/v1/inboundDialPaInRules/2c5662ab-7e5a-45a8-a133-5f4d6c6cb509.

Correct Answer: A
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 57

```
 1 POST /WBXService/XMLService/LstsummaryUser HTTP/1.1
 2 Content-Type: application/xml
 3 Host: api.webex.com
 4 Content-Length: 974
 5
 6 <?xml version="1.0" encoding="UTF-8"?>2 <serv:message xmlns:serv="http://wwww.webex.com/schemas/2002/06/service"
 7   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 8   <header>
 9       <securityContext>
10             <siteName>apidemoeu</siteName>
11             <webExID>janedoe@example.com</webExID>
12             <sessionTicket>AAABb5LTcGcAABUYA0gAKEgyU</sessionTicket>
13       </securityContext>
14       <action>java:com.webex.service.binding.meeting.LstsummaryUser</action>
15   </header>
16   <body>
17       <method>java:com.webex.service.binding.meeting.LstsummaryUser</method>
18       <bodyContent xsi:type="java:com.webex.service.binding.meeting.LstsummaryUser">
19       <webExId>{{WEBEXID}}</webExId>
20       </bodyContent>
21   </body>
22 </serv:message>
```

Refer to the exhibit. A Webex Meetings XML API HTTP request message with several invalid portions is shown. Which reference points to a line in the exhibit that correctly indicates that this is a LstsummaryUser request?

A. line 17

B. line 1

C. line 18

D. line 14

Correct Answer: B
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 58
An existing user (identified by userId) needs to be allowed to host Webex meetings. Which API call is used to assign the new license?

A. PUT /license/{userId}

B. POST /people/{userId}

C. PUT /people/{userId}

D. POST /license/{userId}

Correct Answer: C
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 59 Which two methods can be used to add a custom UI panel to a Webex room device?
(Choose two.)

A. Import an existing panel configuration file by connecting a USB storage drive to the device.
B. Use xAPI to push a JSON panel configuration to the device.
C. Create a panel using the device UI Extensions Editor (previously In-Room Controls).
D. Restore a device backup file present on a PC that contains a panel configuration.
E. From a T-shell session, use the **git** command to merge the XML configuration of a panel.

Correct Answer: AE
Section: Meetings
Explanation

Explanation/Reference:

QUESTION 60
DRAG DROP

Drag and drop the elements to create the command to initiate a call to device@company.com using the Webex Devices xAPI SSH Interface. Not all options are used.

Select and Place:

Correct Answer:

Section: Meetings
Explanation

Explanation/Reference: