

MODULE 1

1. What does BASH stand for?

- ☐ Born Again Shell
- ☐ Basic Shell
- ☐ Bourne Again Shell
- ☐ None of the above

2. Which of the following is the best option for displaying your current environment variables?

- ☐ env | cat >env.txt
- ☐ env | more
- ☐ export \$ENV | cat
- ☐ echo env

3. Match the commands with the correct actions.

creates a directory	pwd	^ v
removes a file or directory, or both	touch	^ v
exports variables	rm	^ v
prints the working directory	mkdir	^ v
creates a file	export	^ v

4. Which command is used to switch to a code branch from a remote repository in Git?

- git branch
- git checkout
- git config
- git remote

5. What does the git add command do?




- It adds files to the staging area.

- It adds files to a remote repository.
 - It tracks files and adds them to the staging area.
 - It tracks files.
6. A senior developer who is working on the same branch as you has just added a fix for a critical bug to a shared Git repository. Which command should you use to update your working directory and test their code with yours?
- git clone
 - git fetch
 - git pull
 - git reset
7. Where can you find code samples?
- on the Cisco XE device
 - DevNet Sandbox
 - on the Cisco NX-OS device
 - DevNet GitHub community
8. Which software development methodology is an implementation of the Lean concept in software engineering?
- Extreme Programming
 - Agile
 - Prototyping
 - Waterfall
9. If you develop with the TDD, what is the first step you will take when implementing a new feature?
- Run all tests.
 - Write app code.
 - Write a test.
 - Refactor code.
10. In which relation is a product backlog to a sprint backlog?
- Work items are typically moved from sprint backlog to product backlog at the sprint start.
 - Work items are typically moved from product backlog to sprint backlog at the sprint start.
 - Product backlog and sprint backlog refer to the same thing.
 - Product backlog and sprint backlog have nothing in common; they are used in different development methodologies.

11. Why is the Refactor step required in test-driven development?

- to make tests pass
- to make tests fail at first
- to improve code quality
- to implement desired functionality

12. Match the steps in the order that they are performed during test-driven development.

1	Write tests. 
2	Write code. 
3	Refactor code. 

13. When should code review be performed?

- in every software development project
- only in large projects
- only where more than three developers work on the same project
- only when critical functionality of the software was modified

MODULE 2

14. What is the output of the following piece of code?

```
print("a", "b", "c", sep="sep")
```

☐ asep bsep csep

☐ abc

☒ a b c

☐ asep bsepc

15. An operator able to check whether two values are not equal is coded as:

☐ !=

☐ <>

☐ not ==

16.How many hashes will the following snippet send to the console?

```
for i in range(-1, 1):  
    print("#")
```

☐ two

☐ three

☐ one

17. Take a look at the snippet and choose one of the following statements which is true

```
nums = []  
vals = nums  
vals.append(1)
```

☐ `vals` is longer than `nums`

☐ `nums` and `vals` are of the same length

☐ `nums` is longer than `vals`

18.How many elements does the `my_list` contain?

```
my_list = [0 for i in range(1, 3)]
```

☐ two

☐ three

☐ one

19. A function definition starts with the keyword:



fun



function



def

20. Which of the following statements are true? (Select two answers)

The `return` keyword forces the function's execution to terminate

The `return` keyword forces the function to restart its execution

The `return` keyword may cause the function to return a value

21. Change the "hostname" value from r1 to r2.

```
router1 = {  
    'hostname': 'r1',  
    'ip': '10.0.0.1',  
    'port': 2001,  
    'os': 'cisco-ios-xr',  
    'vendor': 'cisco',  
    'username': 'admin',  
    'password': 'cisco123'  
}
```

..... =

22. Use the correct syntax to print the number of items in the list.

```
list1 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
print(.....)
```

23. Loop through the items in the router_list.

```
router_list = ['p1', 'p2', 'p3', 'pe1', 'pe2', 'pe3']
```

```
..... router in ..... :  
    print(router)
```

24. What is the correct syntax to import a module named "requests"?

```
..... requests
```

MODULE 3

25. Which two options are reasons that the use of APIs is growing? (Choose two.)

- APIs solve challenges presented by an unreliable network.
- APIs allow for reuse of server code to service different clients like mobile, web, and so on.
- APIs enable developers to use cloud services.
- There are very few use cases for integration with other applications.
- By using networked APIs, computations are performed faster.

26. What does the Postman code generator feature provide?

- It generates HTTP response codes based on your API request.
- It generates programming code snippets of a request.
- It generates server-side code snippets.
- It generates code for automated testing and monitoring of an API inside Postman.

27. Which statement about HTTP is true?

- HTTP is a transport layer protocol.
- HTTP lacks standardization.
- HTTP is an application layer protocol.
- HTTP is a stateful protocol.

28. Which two functionalities do programs like Postman offer? (Choose two.)

- testing an API service
- composing HTTP requests
- hosting a public API service
- intercepting and forging API requests
- analyzing TCP packets

29. Bottom of Form 28. Which Cisco management platform is primarily intended to use an SDN approach to manage data center resource?

- Cisco DNA
- Cisco ACI
- Cisco Prime Infrastructure
- Cisco NSO
- Cisco ACS

30. Which REST method is supported by the Cisco Webex Teams API?

- UPDATE

- PATCH
- POST
- OPTIONS

31. Which API can utilize the HTTP GET method?

- NX-API CLI
- NX-API REST
- NETCONF
- CLI
- SNMP

MODULE 4

32. Which command binds the host port 80 with the applications (on the container) port 8080 when starting the container?

- -p (or -publish) 80:8080
- -p (or --publish) 8080:80
- -p (or --publish) 80:8080
- No additional command needs to be used, because Docker automatically binds those ports.

33. Which two options are essential CI/CD pipeline components? (Choose two.)

- latest software tools available
- code repository
- build system
- Python modules
- SDN controller
- reliable network connection

34. Which statement about bare-metal servers is correct?

- It is very easy to replace physical servers.
- Bare-metal servers have performance, security, and reliability advantages.
- It is not possible to provide resource isolation between containers on bare-metal servers using container technology.
- Resources are shared and cannot be optimized for a specific workload on a physical server.

35. Which of the following statements is most correct?

- Docker allows you to run images and build containers.
- Docker allows you to run containers and build images.
- Docker allows you to run and build containers.
- Docker allows you to run and build images.

36. Information on how to build a Docker image is written in a file named:

- Dockerfile
- Jenkinsfile
- docker-compose
- dockerimage

37. What happens if you attempt to perform a Docker build based on an image that has not been previously referenced on your machine?

- Docker will return a 408: image not found message.

- Docker will return a 404: file not found message.
- Docker will pull the image from GitHub.
- Docker will pull the image from Docker Hub.

38. The markup language used to write Docker playbook is:

- JSON
- YAML
- XML
- HTML

MODULE 5

39. Which three statements are primary attributes of next-generation programmatic interfaces? (Choose three.)

- They must support different types of transport: HTTP, SSH, and TLS.
- They must be flexible and support different types of encoding formats, such as TCL and Python.
- They must support different types of transport: HTTPS, Telnet, and TCP.
- There must be extensible and open APIs: REST, RESTCONF, NETCONF, and gRPC.
- They must be flexible and support different types of encoding formats, such as XML and JSON.
- They must be proprietary and under strict license agreements.

40. Which two encoding types are supported by RESTCONF? (Choose two.)

- REST
- HTML
- JSON
- XML
- HTTP

41. Which two options about YANG statements are correct? (Choose two.)

- Multiple leaf statements can exist within a list.
- Multiple leaf statements can exist within a leaf-list.
- A container can contain other containers.
- A container cannot contain other containers.
- A container cannot be augmented.

42. Which two statements about Ansible are true? (Choose two.)

- Ansible is subscription-based.
- Ansible is free and open source.
- Ansible enables IaC.
- Ansible is used for automation.
- Ansible requires a dedicated server.
- Ansible requires a Red Hat subscription.

43. Which keyword is required in an Ansible playbook?

- `gather_facts`

- hosts
- services
- destinations
- machines
- peers

44. Which two protocols are considered modern APIs for managing Cisco IOS XE network devices? (Choose two.)

- Telnet
- SSH
- HTTP
- NETCONF
- RESTCONF

45. What does SDN stand for?

- scalable designed network
- switch-designated node
- software-defined network
- severity delineated nonaccess
- software-defined nodes