

Practice exam questions for: Nokia NSP IP Network Automation Professional Composite Exam (exam number: 4A0-AI1)

The following questions will test your knowledge and help prepare you for the Nokia NSP IP Network Automation Professional Composite Exam. Compare your responses with the answer key at the end of the document.

1. Which of the following is NOT an advantage of SDN over traditional network management?
 - a. Policy-driven network management.
 - b. Pull-based data collection.
 - c. True programmability for any service from any vendor.
 - d. Real time data collection.
2. Which of the following is NOT a function of orchestration?
 - a. Centralized management of the resource pool
 - b. Defining and creating VMs
 - c. Meeting specific goals in accordance with QOS parameters
 - d. Receiving requests from the Hypervisor
3. Which of the following is NOT a protocol used by Model Driven Telemetry?
 - a. RESTCONF
 - b. NETCONF
 - c. gRPC
 - d. SNMP
4. Which of the following is a building block for network programmability and control?
 - a. 5G evolution
 - b. Decreasing size and complexity of networks
 - c. Exhaustion of IPv4 addresses
 - d. Decommissioning of 3G CDMA networks



5. Which of the following is NOT a building block of NSP automation?
 - a. Multi-layer coordination
 - b. Intent-based networking
 - c. Automated machine images
 - d. SDN control
6. Which of the following is NOT a benefit of using Workflow Manager?
 - a. Virtualizes the network
 - b. Improves efficiency
 - c. Automates repetitive tasks
 - d. Reduces manual configuration errors
7. Which of the following does NOT support Workflow actions?
 - a. NSP applications
 - b. Network elements
 - c. Macintosh OS devices
 - d. Unix servers
8. Which of the following is the core workflow engine used by the Workflow Manager?
 - a. Common Workflow
 - b. OpenStack-Mistral
 - c. Snakemake
 - d. Workflow Description Language
9. Which of the following is NOT a true driver of the transition from traditional to SDN networks?
 - a. Introduction of 5G networks
 - b. Proliferation of IoT-enabled devices
 - c. Close coupling of the control plane and data plane
 - d. Traffic inspection of multi-Tbps traffic with up to one million active flows
10. Which of the following parameters is required when using the nsp.https action to send an HTTPS request?
 - a. Body
 - b. Verify
 - c. Url
 - d. Method

11. Consider the exhibit. Which of the following is the proper syntax to publish ONLY information about the avg RTT to the workflow context?

```

1 {
2   "result": {
3     "success": true,
4     "loss": 0,
5     "RTT": {
6       "min": 0.366,
7       "avg": 0.533,
8       "max": 1.689,
9       "mdev": 0.184
10    }
11  }
12 }|

```

- a. publish: output <% task().result.RTT[1] %>
 - b. publish: output <% task().result.avg.RTT %>
 - c. publish: output <% task().result.RTT.avg %>
 - d. publish: output <% task().result.RTT.[1]%>
12. Consider the exhibit. If an operator selects a router's environment at execution time, what would be the proper syntax to access the "password" value from the "passwds" environment?

routers	
Variable	Value
host1	1.1.1.1

passwds	
Variable	Value
password	admin

- a. <% password.passwds() %>
- b. <% env().password %>
- c. <% routers("passwds").password %>
- d. <% env("passwds").password %>



13. Which of the following commands can be used to retrieve the system token?
 - a. Authorization: Bearer VEtOLVNBtXfHfZDQ3MzE5ZjQtNWEzNC00NTZkLTk5YzQtZTg4NzUxZjQ0YjNI
 - b. Authorization: Bearer <% env().token_auth %>
 - c. Authorization: Bearer <% token_auth.env() %>
 - d. Authorization: Bearer <% env().auth_token%>
14. Which of the following is the proper syntax to call a subworkflow and pass input values?
 - a. task1: workflow: test-workflow input: input1: my_var
 - b. task1: workflow: test-workflow input: input1: {< \$.my_var >}
 - c. task1: workflow: test-workflow input: input1: ((\$.my_var))
 - d. task1: workflow: test-workflow input: input1: my_var.\$
15. Which of the following statements best describes the base attribute of an ad-hoc action?
 - a. It identifies the underlying action the wrapper is built on.
 - b. It is the name of an action associated with a task.
 - c. It defines the variables to publish to the workflow context.
 - d. It defines the variables retrieved at runtime.
16. Which of the following actions runs commands ONLY on SROS devices running classic CLI?
 - a. nsp.sr_other_cli
 - b. nsp.mdm_cli
 - c. nsp.sr
 - d. nsp.sr_cli
17. Which of the following about the NSP Authentication and Termination Services is FALSE?
 - a. The default limit of concurrent tokens at a given time is 50.
 - b. A bearer token must be revoked before asking for a new one.
 - c. After the limit is reached, each subsequent call to get a token will return a “Service Unavailable” error.
 - d. By default, a bearer token is valid for 3600 seconds.
18. Which of the following statements about the Mapping layer in the MDM telemetry framework is TRUE?
 - a. It is used to collect statistics from the network using different protocols.
 - b. It is used to process or report a trigger.
 - c. It is a YANG based statistics definition file.
 - d. It is a JSON file connecting a device to normalized models.
19. Which of the following is NOT modeled by YANG?
 - a. Configuration data
 - b. State data
 - c. Remote Procedure Calls
 - d. Congestion data

20. Which of the following statements about NETCONF is FALSE?
- a. Runs on top of SSHv2
 - b. Supports JSON
 - c. Can be used as an alternative to CLI or SNMP
 - d. Supports XML
21. Which of the following operations can be performed on an intent?
- a. Mark as misaligned
 - b. Phased-out
 - c. Released
 - d. Up-versioned
22. Based on the exhibit below, what is the component name displayed in the UI?
- a. Port Id
 - b. getPorts
 - c. port
 - d. 2

```
1 {  
2   "target-component": [  
3     {  
4       "i18n-text": "Port Id",  
5       "function-name": "getPorts",  
6       "name": "port",  
7       "value-type": "STRING",  
8       "order": 2  
9     },  
10  ]  
11 }
```

23. Which section of an abstract YANG module file contains the attributes exposed to the operator?
- a. Structure
 - b. Header
 - c. Arguments
 - d. Namespace
24. Which of the following best describes the purpose of the script-content.js file which is used to configure intents?
- a. Stores content of the network configuration
 - b. Exposes only the attributes of the config needed by the operator
 - c. Contains properties assigned to an intent type
 - d. Contains all the business logic
25. After discovering that the nodal configuration and the intent are NOT aligned, which of the following should the operator perform?
- a. Synchronize the intent to match the nodal configuration
 - b. Synchronize the nodal configuration to match the intent
 - c. Create a new intent type to match the network configuration
 - d. Up version the intent



Answer Key

- | | | |
|------|-------|-------|
| 1. B | 10. C | 19. D |
| 2. D | 11. C | 20. B |
| 3. D | 12. D | 21. A |
| 4. A | 13. B | 22. A |
| 5. C | 14. A | 23. C |
| 6. A | 15. A | 24. D |
| 7. C | 16. D | 25. B |
| 8. B | 17. B | |
| 9. C | 18. D | |

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