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**Nokia**

**4A0-A11**

*Nokia NSP IP Network Automation Professional Composite*

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### Question: 13

Which of the following sequences best describes the process of moving to SDN based self-regulated networking?

- A. action-based networking -> static networking -> adaptive networking -> autonomous networking
- B. static networking -> action-based networking -> autonomous networking -> adaptive networking
- C. static networking -> action-based networking -> adaptive networking -> autonomous networking
- D. action-based networking -> static networking -> autonomous networking -> adaptive networking

### Answer: C

Explanation:

Nokia NSP is a platform that enables management, control and automation of IP/Optical networks. It supports various levels of network automation, from static networking to autonomous networking.

The process of moving to SDN based self-regulated networking involves four stages:

• Static networking: The network is manually configured and operated by human operators. There is no automation or intelligence involved.

• Action-based networking: The network is partially automated by using predefined actions or scripts that are triggered by events or commands. There is still human intervention required for complex tasks or exceptions.

• Adaptive networking: The network is dynamically automated by using policies, analytics and machine learning that can adjust the network behavior based on changing conditions and objectives. There is minimal human intervention required for oversight and validation.

• Autonomous networking: The network is fully automated by using artificial intelligence and closed-loop feedback that can optimize the network performance and reliability without any human involvement. The network can self-heal, self-optimize and self-protect.

### Question: 14

Which of the following files contains all the back end implementations required for Intent configurations to be performed?

- A. script-content.js
- B. meta-info.json

- C. yang-patch.json
- D. util.js

**Answer: A**

Explanation:

The script-content.js file contains all the back end implementations required for Intent configurations to be performed.

The script-content.js file is a JavaScript file that defines the logic for creating, updating, deleting and synchronizing intents. It also defines the validation rules and error handling mechanisms for intents.

For example, a script-content.js file could contain:

```
function createIntent(intent) { // logic for creating an intent } function updateIntent(intent) { // logic for updating an intent }
```

**Question: 15**

Which of the following statements about Kafka is FALSE?

- A. It is a distributed messaging system.
- B. It is an open-source platform.
- C. It is used to send real-time notifications.
- D. It has four components: Producer, Consumer, Topic and Connector.

**Answer: D**

Explanation:

Kafka is a distributed messaging system that is open-source and can be used to send real-time notifications. However, it has more than four components, such as brokers, partitions, replicas, consumer groups and zookeeper.

**Question: 16**

Which of the following statements about the NSP Kafka service is FALSE?

- A. It allows an API client to receive event or alarm notifications.
- B. It allows an API client to subscribe to different event types.
- C. It is a distributed messaging system.
- D. It uses NETCONF based operations and YANG models.

**Answer: D**

Explanation:

The NSP Kafka service is a distributed messaging system that allows different applications to publish and subscribe to different event types. It provides an API client to receive event or alarm notifications and subscribe to different event types.

However, it does not use NETCONF based operations and YANG models. Instead, it uses the Kafka protocol to send and receive messages between producers and consumers.

### Question: 17

Which of the following allows the Intent Manger to communicate with network elements being managed by SNMP?

- A. NSP mediator
- B. MDC mediator
- C. NFM-P mediator
- D. Generic mediator

### Answer: D

Explanation:

Intent Manager to communicate with network elements that are not directly supported by NSP12. A generic mediator can use SNMP or other protocols to interact with network elements.

### Question: 18

Which character is used to separate the attributes of a Target with multiple attributes?

- A. -
- B. /
- C. #

### Answer: B

Explanation:

The character used to separate the attributes of a Target with multiple attributes is /.

For example, a Target with multiple attributes could be: /network=IP/service=VPN.

### Question: 19

Convert the workflow full syntax to workflow simplified syntax.

```
my_task:
  action: std.http
  input:
    url: http://mywebsite.org
    method: GET
```

Which of the following is correct?

A)

```
my_task:
  action: std.http url="http://mywebsite.org"
```

B)

```
my_task:
  action: std.http url="http://mywebsite.org"
  input:
    method: GET
```

C)

```
my_task:
  action: url="http://mywebsite.org"
```

D)

```
my_task:
  action: std.http url="http://mywebsite.org" method="GET"
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: D**

### Question: 20

Which of the following NSP CLI actions uses the network element's NE ID to establish communication?

- A. nsp.cli
- B. nsp.sr\_cli
- C. nsp.mdm\_di
- D. nsp.netconf

**Answer: B**

Explanation:

nsp.sr\_cli is a nodal communication action that uses the network element's NE ID to establish communication. It is one of the NSP actions and expression functions that can be used to design workflows for network automation

### Question: 21

Which of the following statements about the NSP Workflow Manager (WFM) application is FALSE?

- A. It allows network management tasks to be automated.
- B. Only one workflow can be executed at one time.

- C. Actions and expressions are extensible using Python.
- D. A workflow action can run against RESTCONF APIs.

**Answer: B**

Explanation:

The NSP Workflow Manager (WFM) application allows network management tasks to be automated by creating workflows. Multiple workflows can be run in parallel, and actions and expressions are extensible using Python. Additionally, a workflow action can run against RESTCONF APIs.

According to the NSP Release 19.11 Workflow Manager Application Help<sup>1</sup>, Workflow Manager (WFM) is an application that allows network management tasks to be automated using Nokia NSP or third-party APIs<sup>1</sup>. WFM supports a variety of use cases such as node software upgrades, service activation tests, service fulfillment and mass migration of services<sup>2</sup>. WFM uses actions and expressions that are extensible using Python<sup>1</sup>. A workflow action can run against RESTCONF APIs as well as other protocols such as SNMP, NETCONF and CLI<sup>1</sup>.

**Question: 22**

Which of the following HTTP methods are NOT supported in REST and RESTCONF?

- A. GET
- B. PUT
- C. DELETE
- D. ADD
- E. PATCH

**Answer: D**

Explanation:

The HTTP methods that are supported by REST/RESTCONF are:

• GET: Used to retrieve a representation of a resource.

• PUT: Used to replace a resource or create it if it does not exist.

• DELETE: Used to delete a resource.

• PATCH: Used to apply a partial update to a resource.

The HTTP method ADD is not a standard HTTP method and is not supported by REST/RESTCONF.

Reference: Nokia NSP IP Network Automation Professional Guide, page 77.

**Question: 23**

Which of the following files contains helper functions that can be leveraged by the scripts of many different Intent types?

- A. Framework
- B. Mapping script
- C. Tern plate-mapping
- D. Configuration template

**Answer: A**

Explanation:

The Framework file contains helper functions that can be leveraged by the scripts of many different Intent types.

The Framework file is a JavaScript file that provides common utility functions for Intent operations. It is located in the /opt/nokia/nsp/intent/scripts directory on the NSP server. It can be imported by other script files using the require() function. For example, a Framework file could contain:

```
function getNfmpTemplate(templateName) { // logic for getting an NFM-P template by name }  
  
function getMdTemplate(templateName) { // logic for getting an MD template by name }
```

**Question: 24**

Which of the following is NOT supported by the Workflow Manager out of the box?

- A. REST/RESTCONF APIs
- B. Optical integration using TL1
- C. Shell command execution
- D. CLI command execution on SROS and third party routers

**Answer: C**

Explanation:

Workflow Manager is a module of Nokia NSP that allows users to create and execute automated procedures and closed loop automation using Nokia NSP or third party APIs<sup>3</sup>. It uses Mistral as the workflow engine and supports various technologies that can be used in a workflow<sup>2</sup>.

Some of the technologies that are supported by Workflow Manager out of the box are:

- â REST/RESTCONF APIs
- â CLI command execution on SROS and third party routers
- â Optical integration using TL1
- â SNMP traps
- â Email notifications

**Question: 25**

Which of the following is NOT a characteristic of Containers?

- A. Predictable
- B. Repeatable
- C. Ever-changing
- D. Self-contained

**Answer: C**

Explanation:

some of the characteristics of containers are:

â Resistant and strong

â Designed to facilitate transport of goods

â Easy for stuffing or destuffing

â Fitted with facilities for easy handling

â Airtight and water-resistant

â Predictable and repeatable

â Self-contained and isolated

Ever-changing is not a characteristic of containers. Containers are designed to be predictable, repeatable, and self-contained. They are isolated from the underlying infrastructure and provide a consistent environment for applications to run in, regardless of the host OS.

# SAMPLE QUESTIONS



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