

# Top Exam JN0-224 Fees Free PDF | Efficient Valid Test JN0-224 Bootcamp: Automation and DevOps, Associate (JNCIA-DevOps)

Mid Term Examination  
ECN 312  
Date : 07/03/2025

Duration: 1 Hr 30 Min

Max. Marks: 35

Attempt all questions in sequence.  
Bring your own calculator, pen, etc. No discussion is allowed during the examination.  
Provide a clear description of steps by numbering and referring equations.  
Direct final answers, without steps or explanations leading to them, will not be considered.

- An engineer wants to calculate DFT for the sequence [1, 2, 0, 1, 1, 1]. However, computational resources available to him allow only 3-point DFT calculations. Show stepwise calculations to achieve DFT of the given sequence utilizing only 3-point DFT calculations. (5 marks)
- Design a length-5 FIR filter with a symmetric impulse response  $h[n]$ , i.e.,  $h[n] = h[4-n]$ , for  $n = 0, 1, 2, 3, 4$ , satisfying the following magnitude response values  $|H(e^{j0.5\pi})| = 0$ ;  $|H(e^{j0.3\pi})| = 1$ ;  $|H(e^{j0.9\pi})| = 0$ . (5 marks)
- Consider the filter shown in the following figure: (5 marks)

Figure 1

- Determine its system function.  $\uparrow$  or  $\mathcal{Z}$
- Plot its pole-zero diagram and check the stability for the following conditions:
  - $b_0 = b_1 = 1, b_2 = 2, a_1 = 1.5, a_2 = -0.9$
  - $b_0 = b_1 = 1, b_2 = 2, a_1 = 1, a_2 = -2$
- Determine the response to  $x(n) = \cos(n\pi/3)$  if  $b_0 = 1, b_1 = b_2 = 0, a_1 = 1, a_2 = -0.99$ .

- For the sequences  $x(n) = [3, 0, 4]$  and  $h(n) = [2, 0, 1]$ , (3 marks)
  - Calculate linear convolution.
  - Find circular convolution using linear convolution calculated in part (a).
- The system function of a causal filter is (4 marks)
 
$$H(z) = \frac{0.3 + az^{-1} + z^{-2}}{1 + az^{-1} + 0.3z^{-2}} \quad (1)$$

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## Juniper JN0-224 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• Python</li> <li>• PyEZ: This domain examines Python programming with PyEZ library for Junos automation, including JSNAPy, Jinja2 templates, RPC calls, exception handling, and device configuration management.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• Rest API: This domain covers Junos REST API implementation, REST API Explorer tool, and cURL usage for HTTP-based device management and configuration.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• Junos Automation Stack and DevOps Concepts: This domain covers fundamental automation tools, frameworks, APIs, and DevOps culture applicable to Junos platform operations and network management.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• NETCONF</li> <li>• XML API: This domain focuses on XML syntax, XPath expressions, NETCONF protocol, and XML API functionality for programmatic device configuration and communication.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Data Serialization: This domain addresses YAML and JSON formats used for structured data representation and exchange in network automation workflows.</li> </ul>

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## Juniper Automation and DevOps, Associate (JNCIA-DevOps) Sample Questions (Q13-Q18):

### NEW QUESTION # 13

Which data construct is used to guarantee that element names and data values remain unique in an XML document?

- A. element
- B. dictionary
- C. namespace
- D. schema definition

**Answer: C**

Explanation:

In XML documents, a namespace is the data construct used to ensure that element names and data values remain unique. Namespaces prevent naming conflicts by differentiating between elements or attributes that may have the same name but different meanings. This is particularly important in XML, where documents often incorporate elements from multiple sources.

Detailed Explanation:

XML Namespaces: A namespace is a collection of names, identified by a URI reference, which is used to distinguish between elements that may have identical names but different definitions or origins. This helps avoid ambiguity in the document.

How Namespaces Work: When a namespace is applied, each element or attribute in the XML document is associated with a prefix. This prefix, combined with the namespace URI, ensures that the element or attribute is uniquely identified, even if another element or attribute in the same document has the same local name but a different namespace.

Schema Definition vs. Namespace: Although an XML schema definition (XSD) can define the structure and type constraints of an XML document, it does not guarantee uniqueness of element names across different XML documents. That role is fulfilled by namespaces.

Practical Example:

xml

Copy code

```
<root xmlns:ns1="http://www.example.com/ns1"
xmlns:ns2="http://www.example.com/ns2">
<ns1:item>Item in namespace 1</ns1:item>
<ns2:item>Item in namespace 2</ns2:item>
</root>
```

In this example, the item elements are in different namespaces (ns1 and ns2), which keeps them unique even though they have the same name.

Reference:

Juniper Automation and DevOps Documentation: These practices highlight the importance of namespaces in XML documents to maintain the integrity and uniqueness of data, which is essential in automation scripts and configuration files.

W3C XML Namespace Specification: The World Wide Web Consortium (W3C) standard for XML Namespaces defines how namespaces should be used to avoid name conflicts.

Namespaces are a crucial concept in XML, ensuring that data can be consistently managed and interpreted correctly, particularly in complex systems where multiple XML documents or schemas are involved.

#### NEW QUESTION # 14

What is the correct Python script syntax to prompt for input?

- A. `input("Device IP address:") = hostIP`
- B. `hostIP = input("Device IP address: ")`
- C. `hostIP = input{Device IP address: }`
- D. `hostIP = input"Device IP address: "`

**Answer: B**

Explanation:

In Python, the correct syntax to prompt the user for input and store that input in a variable is:

`input(prompt)`: The `input()` function is used to take input from the user. The string provided as an argument (inside the parentheses) is displayed as a prompt to the user. The input provided by the user is returned as a string and can be stored in a variable.

Example:

```
hostIP = input("Device IP address: ")
```

In this example, "Device IP address: " is the prompt displayed to the user, and the user's input will be stored in the variable `hostIP`.

Options B, C, and D are syntactically incorrect in Python.

Reference:

Python Official Documentation: Describes the use of the `input()` function for getting user input.

Python Tutorials: Various tutorials demonstrate how to properly use the `input()` function in scripts.

#### NEW QUESTION # 15

Given the following Python script:

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

What is the output of this print command?

- A. 0
- B. 1
- C. 2
- D. 3

**Answer: B**

Explanation:

In Python, lists are zero-indexed, meaning the first element of the list is at index 0. The given script is:

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

`a[0]` refers to the first element in the list `a`, which is 1.

So, the output of the `print(a[0])` command is 1.

Option A is correct because Python indexing starts at 0, making the first element of the list at index 0.

Reference:

Python Official Documentation: Covers list indexing and operations.

Python Programming Tutorials: Provide examples of list indexing.

### NEW QUESTION # 16

You are asked to use the REST API to retrieve interface configuration information from your Junos device. You decide to use a cURL HTTP GET command to retrieve this information.

In this scenario, which two statements are correct? (Choose two.)

- A. You can retrieve this data in XML or JSON formats.
- B. You must Include the authentication Information with each request.
- C. You must have SSH enabled on the Junos device.
- D. You can retrieve this data in HTML or JSON formats.

**Answer: A,B**

Explanation:

When using the REST API to retrieve interface configuration information from a Junos device:

Data Formats (C): The information can be retrieved in XML or JSON formats. These are the two standard data formats supported by the Junos REST API for representing configuration and operational data.

Authentication (D): For each HTTP request, especially when using tools like cURL, authentication information must be included. This is typically done using basic authentication (username and password) or an authentication token.

Option A is incorrect because HTML is not a supported format for REST API data retrieval in Junos, and Option B is incorrect because SSH is not required for REST API requests; the REST API typically uses HTTP/HTTPS.

Reference:

Junos REST API Documentation: Details the data formats (XML, JSON) supported by the Junos REST API and the need for authentication.

cURL Usage with REST API: Provides examples of how to use cURL with Junos REST API, including the necessity of providing authentication.

### NEW QUESTION # 17

You must use Junos PyEZ to configure unique IP addresses on individual machines.

Which two features will permit this requirement? (Choose). I an SCP module

- A. a Jinja2 template
- B. a BSON data file
- C. an SCP module
- D. a YAML data file

**Answer: A,D**

Explanation:

To configure unique IP addresses on individual machines using Junos PyEZ, you can use the following features:

YAML Data File (C): YAML files are used to store configuration data in a human-readable format. They are often used in combination with Jinja2 templates to provide the data necessary for template rendering.

Jinja2 Template (D): Jinja2 is a templating engine for Python that allows you to create dynamic templates. When used with Junos PyEZ, a Jinja2 template can be filled with data (such as IP addresses from a YAML file) to generate configuration snippets that are applied to different devices.

Options A (SCP module) and B (BSON data file) are not typically used with Junos PyEZ for this purpose.

Reference:

Junos PyEZ Documentation: Discusses the use of YAML files and Jinja2 templates for generating configurations.

Jinja2 Templating Documentation: Provides details on how to create and use templates in Python scripts.

### NEW QUESTION # 18

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