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TEST BANK FOR

Introduction to Java Programming and Data Structures Comprehensive Version 12th Edition by Y. Daniel Liang

Chapter 1 Introduction to Computers, Programs, and Java

Section 1.2 What is a Computer?

1. _____ is the physical aspect of the computer that can be seen.
- Hardware
 - Software
 - Operating system
 - Application program
- Key:a See the first paragraph in Section 1.2.

#

Section 1.2.1 What is a Computer?

2. _____ is the brain of a computer.
- Hardware
 - CPU
 - Memory
 - Disk
- Key:b See the first paragraph in Section 1.2.1.

#

3. The speed of the CPU may be measured in _____.

- megabytes
- gigabytes
- megahertz
- gigahertz

Key:d See the third paragraph in Section 1.2.1. 1 megahertz equals 1 million pulses per second and 1 gigahertz is 1000 megahertz.

#

Section 1.2.2 Bits and Bytes

4. Why do computers use zeros and ones?

- because combinations of zeros and ones can represent any numbers and characters.
- because digital devices have two stable states and it is natural to use one state for 0 and the other for 1.
- because binary numbers are simplest.
- because binary numbers are the bases upon which all other number systems are built. Key:b See the second paragraph in Section 1.2.2.

#

5. One byte has _____ bits.

- 4
- 8
- 12
- 16

Key:b See the third paragraph in Section 1.2.2.

#

5. One gigabyte is approximately _____ bytes.

- 1 million
- 10 million

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Juniper JN0-650 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Interior Gateway Protocols (IGPs): This domain covers internal routing protocols operating within a single autonomous system, including OSPFv2, OSPFv3, and routing policy implementation, along with configuration, troubleshooting, and monitoring skills.
Topic 2	<ul style="list-style-type: none">IP Multicast: This domain addresses one-to-many communication using multicast routing, covering addressing, ASM vs SSM models, RPF, IGMPsnooping, PIM sparse-mode, rendezvous points, Anycast RP, MSDP, and routing policies.
Topic 3	<ul style="list-style-type: none">EVPN: This section addresses Ethernet VPN technology for Layer 2 over Layer 3 connectivity, covering EVPN route types, VXLAN encapsulation, and multi-homing configurations.
Topic 4	<ul style="list-style-type: none">BGP: This section focuses on Border Gateway Protocol operations including route selection, next hop resolution, BGP attributes, communities, load balancing, IPv4IPv6 address families, advanced options, and routing policy implementation.
Topic 5	<ul style="list-style-type: none">Layer 2 Authentication and Access Control: This domain examines network access control mechanisms including 802.1x, MAC RADIUS, captive portal, server fail fallback, guest VLANs, and multi-method authentication considerations.

Juniper Enterprise Routing and Switching, Professional (JNCIP-ENT) Sample Questions (Q34-Q39):

NEW QUESTION # 34

Which statement accurately describes the operation of OSPF within the Junos OS?

- A. OSPF does not automatically advertise directly connected routes.
- B. OSPF is used for routing information and neighbor discovery within a single autonomous system (AS).**
- C. OSPF calculates routes using a distance vector algorithm.
- D. OSPF is used for routing information and neighbor discovery between multiple autonomous systems.

Answer: B

Explanation:

OSPF (Open Shortest Path First) is a standards-based Link-State Interior Gateway Protocol (IGP) implemented within Junos OS 24.4:

Intra-AS Routing: OSPF is designed to distribute routing information and perform neighbor discovery within a single Autonomous System (AS). It divides the AS into areas to localize Link-State Advertisements (LSAs) and reduce the size of the Link-State Database (LSDB) on each router. (Option B) **Algorithm:** OSPF uses the Shortest Path First (SPF) or Dijkstra algorithm, not a distance vector algorithm (which would be RIP or BGP). This makes Option A incorrect.

Directly Connected Routes: In Junos OS, you must explicitly configure an interface under the [edit protocols ospf] hierarchy to include it in the OSPF process. Once an interface is added, its prefix is automatically advertised to neighbors via Router (Type 1) LSAs. This makes Option C technically inaccurate in the context of interfaces participating in the protocol.

Scope: Protocols used between multiple autonomous systems are External Gateway Protocols (EGPs), such as BGP. This makes Option D incorrect.

NEW QUESTION # 35

What is the role of the Rendezvous Point (RP) in multicast networks using PIM Sparse Mode?

- A. To act as the sole transmitter of multicast data.
- B. To serve as a common point for sources and receivers to join the multicast tree.**
- C. To provide security services for multicast data.
- D. To distribute multicast data using the shortest path tree.

Answer: B

NEW QUESTION # 36

Exhibit

Referring to the exhibit, which two statements are correct? (Choose two.)

- A. The BGP configuration includes the multipath parameter.
- B. This route has a hidden next hop.
- C. This route has two next hops available.
- D. The BGP configuration is for IBGP

Answer: A,C

Explanation:

The exhibit shows the output of the command `show route protocol bgp` on router R1 for the prefix 172.16.10.1/32. To determine the correct characteristics of this route, we analyze the specific BGP attributes and next-hop information provided in the routing table entry:

Multipath Parameter (Option B): The routing table shows two distinct paths for the prefix 172.16.10.1/32. The first path has two next hops (192.168.10.1 and 192.168.20.1) and is marked with the plus symbol (+) and the asterisk (*), indicating it is both an active and the best route. The presence of multiple next hops being used simultaneously for a single BGP path is a clear indication that the multipath parameter is enabled in the BGP configuration. In Junos OS, BGP multipath allows the installation of multiple equal-cost BGP paths into the forwarding table to facilitate load balancing.

Available Next Hops (Option C): The output explicitly lists two functional next hops for the active path:

192.168.10.1 via ge-1/0/0.2 and 192.168.20.1 via ge-1/0/1.3. Both show an outgoing interface, confirming that this route has two next hops available for traffic forwarding.

IBGP vs. EBGP (Option A): The BGP routes shown have an AS path of 200 I. This indicates the routes were learned from an external Autonomous System (AS 200). Furthermore, the protocol preference is 170. In Junos OS, the default preference for External BGP (EBGP) is 170, whereas the default preference for Internal BGP (IBGP) is 200. Therefore, this configuration is for EBGP, not IBGP.

Hidden Next Hops (Option D): The summary line at the top of the exhibit mentions that there are "2 hidden" routes in the inet.0 table. However, these hidden routes are not the next hops for the 172.16.10.1/32 prefix. A hidden route is a prefix that was rejected by policy or has an unreachable next hop; it is not a "hidden next hop" belonging to an active route.

NEW QUESTION # 37

Click the Exhibit button.

Which well-known community needs to be used to restrict 10.0.0.0/8 from being advertised to AS 2?

- A. no-advertise
- B. no-export-subconfed
- C. no-export
- D. no-publish

Answer: C

NEW QUESTION # 38

You are asked to establish authentication for users connecting to the corporate network. You must ensure that only corporate devices that are identified by MAC addresses are allowed to authenticate and connect. Authentication must be handled by a centralized database.

Which authentication method would you implement in this scenario?

- A. single supplicant mode
- B. MAC RADIUS
- C. single-secure supplicant mode
- D. captive portal

Answer: B

Explanation:

In this scenario, the requirement is to authenticate devices based on their MAC addresses using a centralized database.

MAC RADIUS (Option A): This is the standard Juniper method for authenticating "headless" or non-802.1X capable devices based on their hardware (MAC) address. The switch acts as a proxy, sending the device's MAC address as the username and password to a centralized RADIUS server (the centralized database). If the MAC address is found in the server's database, the device is granted access to the network. This perfectly matches the user's requirement for MAC-based authentication and a centralized database.

Captive Portal (Option B): This is a web-based authentication method requiring user interaction (login via a browser), which is not based on MAC address identification for the initial authentication phase.

Supplicant Modes (Options C & D): These define how multiple devices are handled on an 802.1X-enabled port, but they are not authentication methods themselves; they rely on 802.1X (EAP-based) or MAC-RADIUS being already configured.

NEW QUESTION # 39

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