

300-410 Exam Blueprint | 300-410 Exam Actual Questions

PYTHON & DATA SCIENCE PRACTICAL PROBLEMS – BASICS & CONTROL FLOW

Document 1 (Corrected Sample) • True Step-by-Step Solutions (No Code)

1. Classify a user-entered integer as positive, negative, or zero.

Step-by-step solution: 1. Read the integer value entered by the user. 2. Compare the value with zero. 3. If the value is greater than zero, classify it as positive. 4. If the value is less than zero, classify it as negative. 5. If the value is equal to zero, classify it as zero.

2. Calculate the sum of all integers from 1 to n.

Step-by-step solution: 1. Read the integer value n. 2. Initialize a variable sum to 0. 3. Iterate from 1 to n, adding each integer to sum. 4. Print the final value of sum.

3. Determine whether a number is even or odd.

Step-by-step solution: 1. Read the integer value n. 2. Check if n % 2 == 0. If true, it's even; otherwise, it's odd.

4. Identify the largest of three given numbers.

Step-by-step solution: 1. Read three integer values a, b, and c. 2. Compare a with b and c. 3. Print the maximum value.

5. Generate a multiplication table from 1 to 10.

Step-by-step solution: 1. Iterate from 1 to 10 for the first number. 2. Iterate from 1 to 10 for the second number. 3. Print the product of the two numbers.

6. Count the number of integers between 1 and 100 divisible by 7.

Step-by-step solution: 1. Iterate from 1 to 100. 2. Check if the number is divisible by 7. 3. Count the number of such integers.

7. Reverse the sign of a positive integer.

Step-by-step solution: 1. Read the integer value n. 2. Multiply n by -1. 3. Print the result.

8. Calculate the factorial of a given number.

Step-by-step solution: 1. Read the integer value n. 2. Initialize a variable fact to 1. 3. Iterate from 1 to n, multiplying each integer to fact. 4. Print the final value of fact.

9. Check whether a given year is a leap year.

Step-by-step solution: 1. Read the integer value year. 2. Check if year % 4 == 0 and year % 100 != 0, or year % 400 == 0. 3. Print the result.

10. Calculate the average of multiple user-inputted numbers.

Step-by-step solution: 1. Read the number of integers n. 2. Iterate from 1 to n, reading each integer. 3. Calculate the sum and average. 4. Print the average.

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Cisco Implementing Cisco Enterprise Advanced Routing and Services Sample Questions (Q584-Q589):

NEW QUESTION # 584

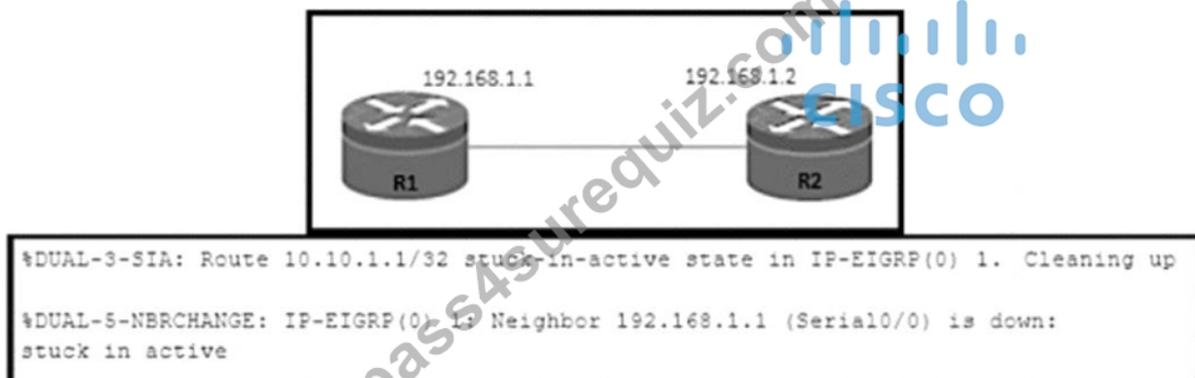
```
OSPF: Send DBD to 10.100.1.2 on GigabitEthernet0/1 seq 0x9E6 opt
0x52 flag 0x7
  len 32
OSPF: Retransmitting DBD to 10.100.1.2 on GigabitEthernet0/1
[10]
OSPF: Send DBD to 10.100.1.2 on GigabitEthernet0/1 seq 0x9E6 opt
0x52 flag 0x7
  len 32
OSPF: Retransmitting DBD to 10.100.1.2 on GigabitEthernet0/1
[11]
%OSPF-5-ADJCHG: Process 1, Nbr 10.100.1.2 on GigabitEthernet0/1
from EXSTART to
  DOWN, Neighbor Down: Too many retransmissions
```

Refer to the exhibit. The OSPF neighbor relationship is not coming up. What must be configured to restore OSPF neighbor adjacency?

- A. OSPF on the remote router
- B. use router ID
- C. matching hello timers
- **D. matching MTU values**

Answer: D

NEW QUESTION # 585



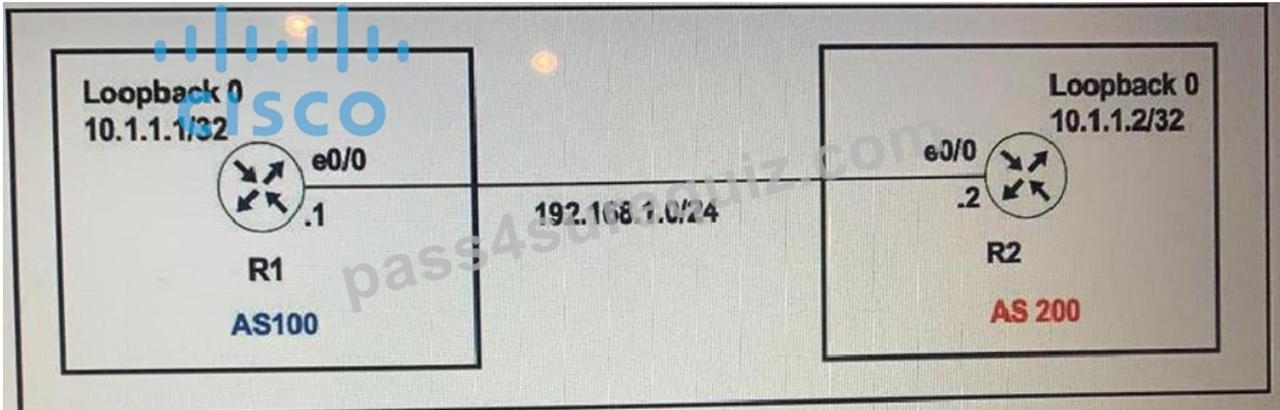
Refer to the exhibit. An engineer notices a connectivity problem between routers R1 and R2. The frequency of this problem is high during peak business hours. Which action resolves the issue?

- A. Decrease the EIGRP keepalive and hold down timers on R1 and R2.
- **B. Increase the available bandwidth between R1 and R2.**
- C. Set static EIGRP neighborship between R1 and R2.
- D. Increase the MTU on the interfaces that connect R1 and R2.

Answer: B

NEW QUESTION # 586

Refer to the exhibit.



The R1 and R2 configurations are:

```
R1
router bgp 100
neighbor 10.1.1.2 remote-as 200

R2
router bgp 200
neighbor 10.1.1.1 remote-as 100
```

The neighbor is not coming up. Which two sets of configurations bring the neighbors up? (Choose two.)

- A. R2
ip route 10.1.1.1 255.255.255.255 192.168.1.1
!
router bgp 200
neighbor 10.1.1.1 ttl-security hops 1
neighbor 10.1.1.1 update-source loopback 0
- B. R2
ip route 10.1.1.1 255.255.255.255 192.168.1.1
!
router bgp 200
neighbor 10.1.1.1 disable-connected-check
neighbor 10.1.1.1 update-source loopback 0
- C. R1
ip route 10.1.1.2 255.255.255.255 192.168.1.2
!
router bgp 100
neighbor 10.1.1.1 ttl-security hops 1
neighbor 10.1.1.2 update-source loopback 0
- D. R2
ip route 10.1.1.2 255.255.255.255 192.168.1.2
!
router bgp 100
neighbor 10.1.1.2 ttl-security hops 1
neighbor 10.1.1.2 update-source loopback 0
- E. R1
ip route 10.1.1.2 255.255.255.255 192.168.1.2
!
router bgp 100
neighbor 10.1.1.2 disable-connected-check

neighbor 10.1.1.2 update-source Loopback0

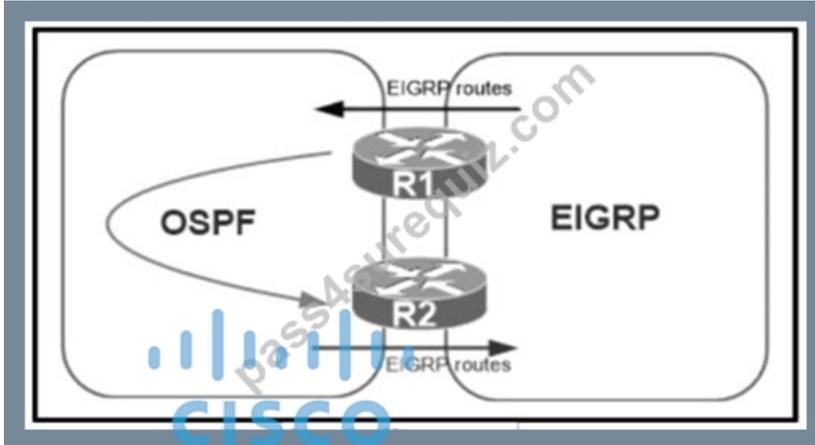
Answer: B,E

Explanation:

The `neighbor disable-connected-check` command is used to disable the connection verification process for eBGP peering sessions that are reachable by a single hop but are configured on a loopback interface or otherwise configured with a non-directly connected IP address.

NEW QUESTION # 587

Refer to the exhibit.



A network administrator configured mutual redistribution on R1 and R2 routers, which caused instability in the network. Which action resolves the issue?

- A. Advertise summary routes of EIGRP to OSPF and deny specific EIGRP routes when redistributing into OSPF.
- B. Set a tag in the route map when redistributing EIGRP into OSPF on R1, and match the same tag on R2 to allow when redistributing OSPF into EIGRP.
- C. Apply a prefix list of EIGRP network routes in OSPF domain on R1 to propagate back into the EIGRP routing domain.
- D. Set a tag in the route map when redistributing EIGRP into OSPF on R1, and match the same tag on R2 to deny when redistributing OSPF into EIGRP.

Answer: D

Explanation:

When doing mutual redistribution at multiple points (between OSPF and EIGRP on R1 & R2), we may create routing loops so we should use route-map to prevent redistributed routes from redistributing again into the original domain.

In the below example, the route-map "SET-TAG" is used to prevent any routes that have been redistributed into EIGRP from redistributed again into OSPF domain by tagging these routes with tag 1:

```
R3
route-map SET-TAG permit 10
set tag 1
```

These routes are prevented from redistributed again by route-map FILTER_TAG by denying any routes with tag 1 set:

```
R4
route-map FILTER_TAG deny 10
match tag 1
```

NEW QUESTION # 588

Refer to the exhibit.

```

R1# show ip int br | ex una
Interface          IP-Address OK? Method Status Protocol
Ethernet1/0        203.0.113.1 YES manual up      up
Loopback1          172.16.50.1 YES manual up      up
Loopback2          172.16.100.1 YES manual up      up
Loopback3          172.16.150.1 YES manual up      up

R1# show ip eigrp neighbors
EIGRP-IPv4 Neighbors for AS(1)
H Address          Interface Hold Uptime SRTT RTO Q Seq
      (sec)          (ms)  Cnt Num
0 203.0.113.2      Et1/0 14 00:31:16 1018 5000 0 24

R1# show ip eigrp topo all-links
EIGRP-IPv4 Topology Table for AS(1)/ID(172.16.10.1)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - reply Status, s - sia Status

P 192.168.10.0/24, 1 successors, FD is 409600, serno 34
   via 203.0.113.2 (409600/128256), Ethernet1/0
P 172.16.100.0/24, 1 successors, FD is 128256, serno 32
   via Connected, Loopback2
P 192.168.30.0/24, 1 successors, FD is 409600, serno 36
   via 203.0.113.2 (409600/128256), Ethernet1/0
P 203.0.113.0/24, 1 successors, FD is 281600, serno 33
   via Connected, Ethernet1/0
P 172.16.150.0/24, 1 successors, FD is 128256, serno 31
   via Connected, Loopback3
P 172.16.50.0/24, 1 successors, FD is 128256, serno 30
   via Connected, Loopback1
P 192.168.20.0/24, 1 successors, FD is 409600, serno 35
   via 203.0.113.2 (409600/128256), Ethernet1/0

```

Routers R1 and R2 have established a network adjacency using EIGRP, and both routers are advertising subnets to its neighbor. After issuing the show ip EIGRP topology all-links command in R1, some prefixes are no showing R2 as a successor. Which action resolves the issue?

- A. Resolve the incorrect metric on the link.
- B. Rectify the incorrect router ID in R2.
- C. Enable split-horizon.
- D. Configure the network statement on the neighbor.

Answer: A

NEW QUESTION # 589

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