

# Cisco

## Exam 200-105

### Interconnecting Cisco Networking Devices Part 2 (ICND2 v3.0)

Version: 6.0

[ Total Questions: 204 ]

**Topic break down**

<b>Topic</b>	<b>No. of Questions</b>
<b>Topic 1: New Set Questions</b>	<b>51</b>
<b>Topic 2: LAN Switching Technologies</b>	<b>20</b>
<b>Topic 3: Routing Technologies</b>	<b>55</b>
<b>Topic 4: WAN Technologies</b>	<b>35</b>
<b>Topic 5: Infrastructure Services</b>	<b>20</b>
<b>Topic 6: Infrastructure Maintenance</b>	<b>23</b>

**Topic 1, New Set Questions****Question No : 1 - (Topic 1)**

Which spanning-tree feature places a port immediately into a forwarding state?

- A. BPDU guard
- B. PortFast
- C. loop guard
- D. UDLD
- E. Uplink Fast

**Answer: B**

**Explanation:**

PortFast causes a switch or trunk port to enter the spanning tree forwarding state immediately, bypassing the listening and learning states. You can use PortFast on switch or trunk ports that are connected to a single workstation, switch, or server to allow those devices to connect to the network immediately, instead of waiting for the port to transition from the listening and learning states to the forwarding state.

**Question No : 2 - (Topic 1)**

Which statement about switch access ports is true?

- A. They drop packets with 802.1Q tags.
- B. A VLAN must be assigned to an access port before it is created.
- C. They can receive traffic from more than one VLAN with no voice support
- D. By default, they carry traffic for VLAN 10.

**Answer: A**

**Explanation:**

"If an access port receives a packet with an 802.1Q tag in the header other than the access VLAN value, that port drops the packet without learning its MAC source address."

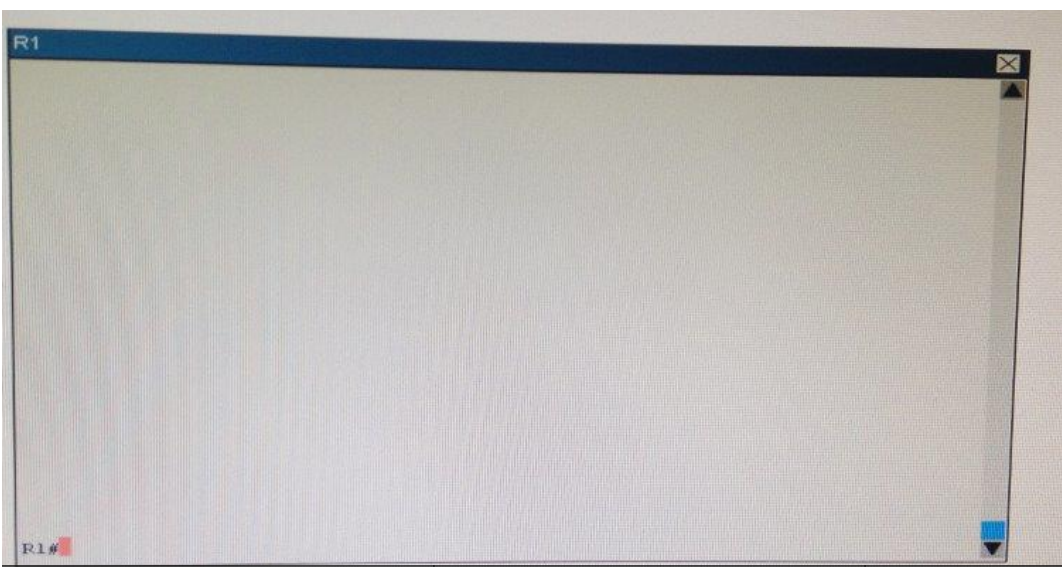
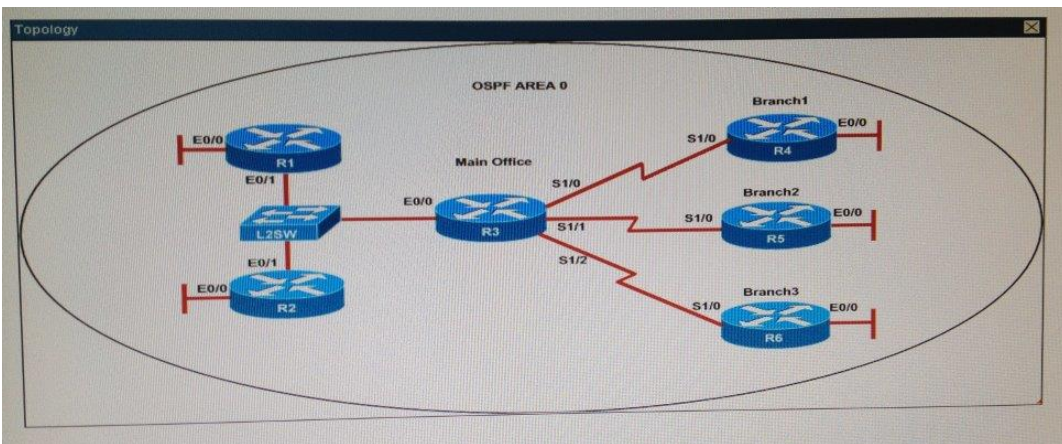
Question No : 3 - (Topic 1)

**Instructions**

- Enter Cisco IOS commands on the device to verify network operation and answer the multiple-choice questions.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.**
- Click on the device to gain access to the console of the device. No console or enable passwords are required.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are **four** multiple-choice questions with this task. Be sure to answer all four questions before clicking the Next button.

**Scenario**

Refer to the topology. Your company has decided to connect the main office with three other remote branch offices using point-to-point serial links. You are required to troubleshoot and resolve OSPF neighbor adjacency issues between the main office and the routers located in the remote branch offices. Use appropriate show commands to troubleshoot the issues and answer all four questions.



```
R1# show running-config

interface Loopback0

description ***Loopback***

ip address 192.168.1.1 255.255.255.255

ip ospf 1 area 0

!

interface Ethernet0/0

description **Connected to R1-LAN**

ip address 10.10.110.1 255.255.255.0

ip ospf 1 area 0

!

interface Ethernet0/1

description **Connected to L2SW**

ip address 10.10.230.1 255.255.255.0

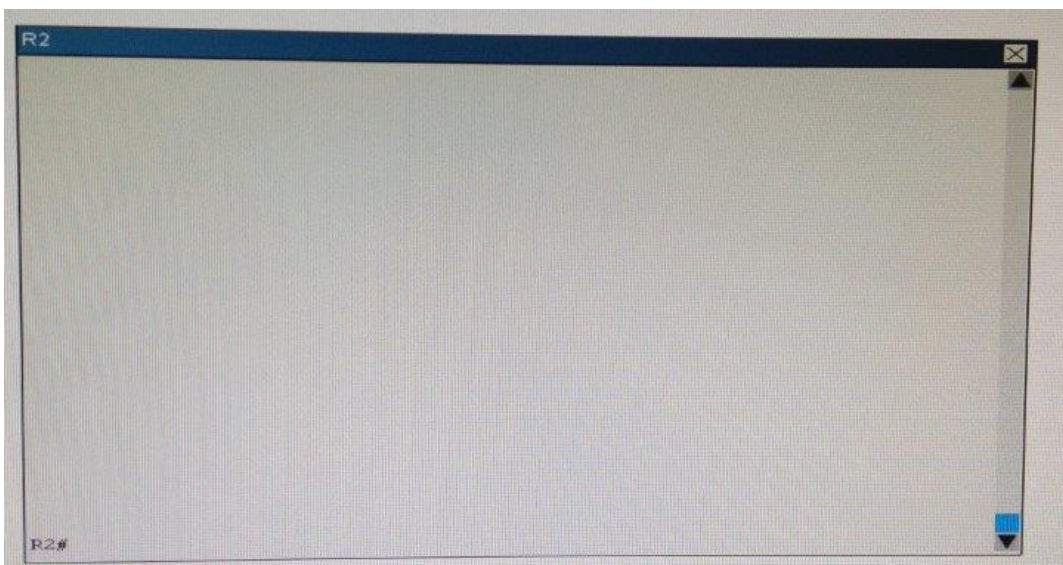
ip ospf hello-interval 25

ip ospf 1 area 0

!

router ospf 1

log-adjacency-changes
```



R2# show running-config

R2

!

interface Loopback0

description \*\*Loopback\*\*

ip address 192.168.2.2 255.255.255.255

ip ospf 2 area 0

!

interface Ethernet0/0

description \*\*Connected to R2-LAN\*\*

ip address 10.10.120.1 255.255.255.0

ip ospf 2 area 0

!

interface Ethernet0/1

description \*\*Connected to L2SW\*\*

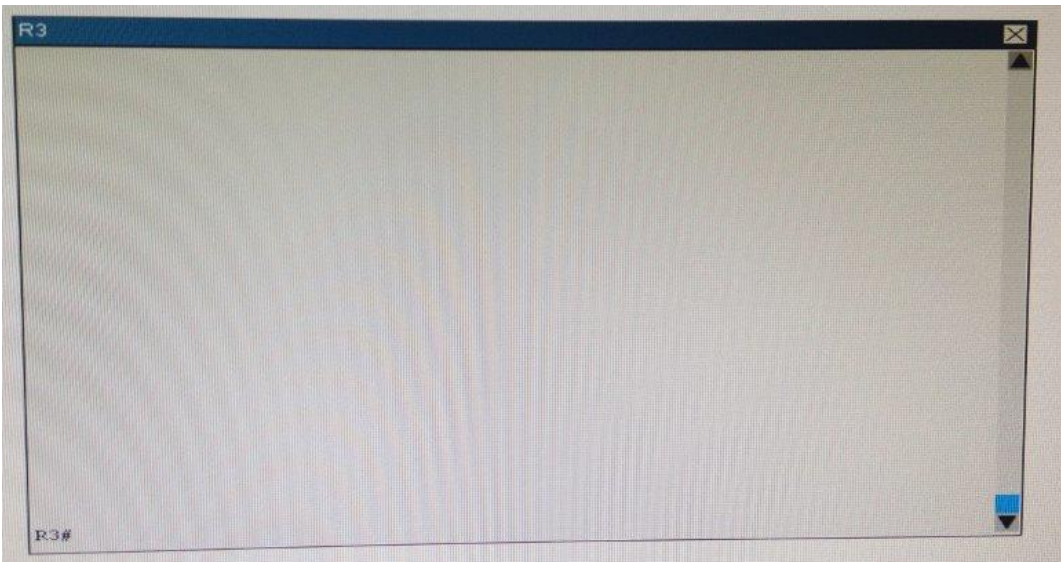
ip address 10.10.230.2 255.255.255.0

ip ospf 2 area 0

!

router ospf 2

log-adjacency-changes



```
R3# show running-config
```

```
R3
```

```
username R6 password CISCO36
```

```
!
```

```
interface Loopback0
```

```
description **Loopback**
```

```
ip address 192.168.3.3 255.255.255.255
```

```
ip ospf 3 area 0
```

```
!
```

```
interface Ethernet0/0
```

```
description **Connected to L2SW**
```

```
ip address 10.10.230.3 255.255.255.0
```

```
ip ospf 3 area 0
```

```
!
```

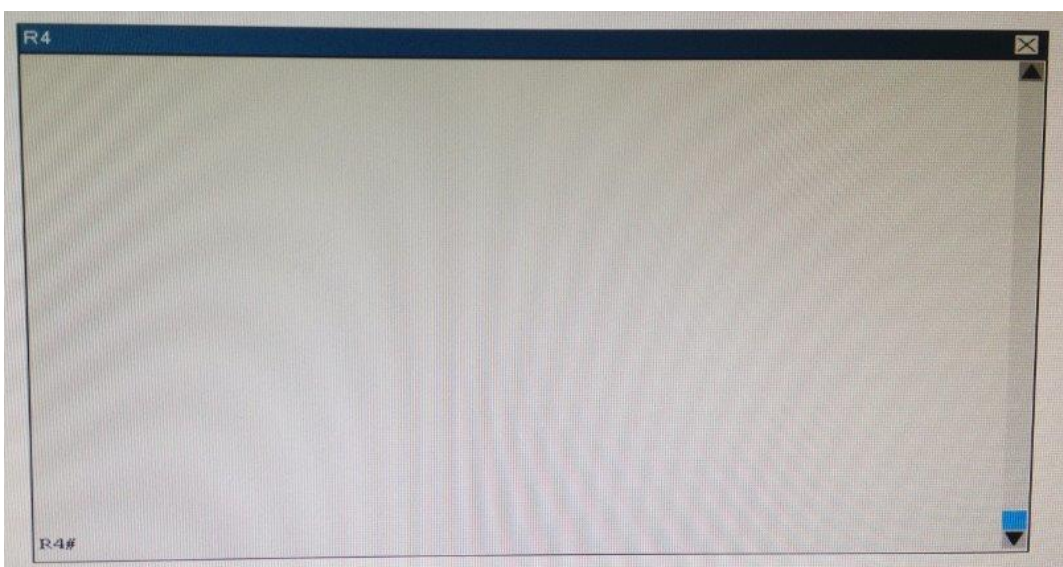
```
interface Serial1/0
```

```
description **Connected to R4-Branch1 office**
```

```
ip address 10.10.240.1 255.255.255.252
```

```
encapsulation ppp
```

```
ip ospf 3 area 0
!
interface Serial1/1
description **Connected to R5-Branch2 office**
ip address 10.10.240.5 255.255.255.252
encapsulation ppp
ip ospf hello-interval 50
ip ospf 3 area 0
!
interface Serial1/2
description **Connected to R6-Branch3 office**
ip address 10.10.240.9 255.255.255.252
encapsulation ppp
ip ospf 3 area 0
ppp authentication chap
!
router ospf 3
router-id 192.168.3.3
!
```





**R4#** show running-config

R4

!

interface Loopback0

description \*\*Loopback\*\*

ip address 192.168.4.4 255.255.255.255

ip ospf 4 area 2

!

interface Ethernet0/0

ip address 172.16.113.1 255.255.255.0

ip ospf 4 area 2

!

interface Serial1/0

description \*\*Connected to R3-Main Branch office\*\*

ip address 10.10.240.2 255.255.255.252

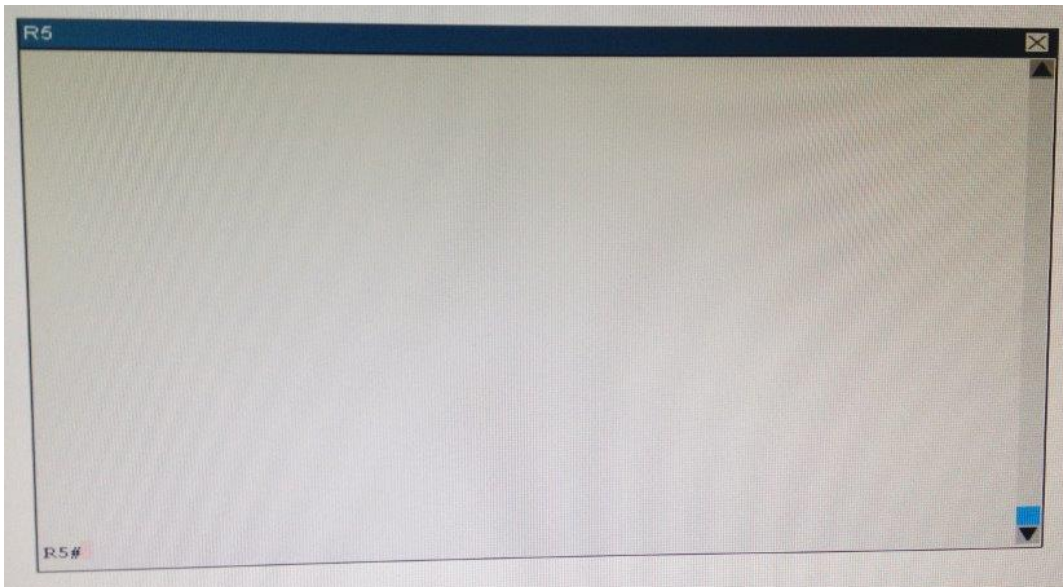
encapsulation ppp

ip ospf 4 area 2

!

router ospf 4

log-adjacency-changes



**R5#** show running-config

R5

!

interface Loopback0

description \*\*Loopback\*\*

ip address 192.168.5.5 255.255.255.255

ip ospf 5 area 0

!

interface Ethernet0/0

ip address 172.16.114.1 255.255.255.0

ip ospf 5 area 0

!

interface Serial1/0

description \*\*Connected to R3-Main Branch office\*\*

ip address 10.10.240.6 255.255.255.252

encapsulation ppp

ip ospf 5 area 0