

# 642-661

## Cisco

### Configuring BGP on Cisco Routers (BGP)

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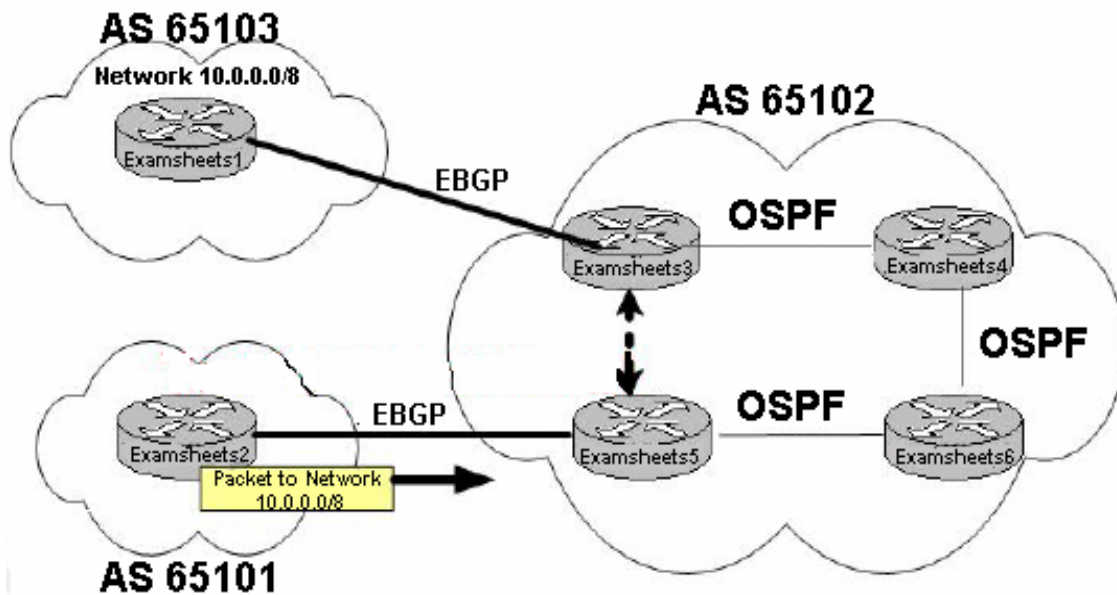
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Exam Name:	Configuring BGP on Cisco Routers		
Exam Type:	Cisco		
Exam Code:	642- 661 (BGP)	Total Questions:	262

Question: 1.  
Exhibit:



There is no direct physical connectivity between Company3 and Company5. The Transit AS 65102 is only running partial-meshed IBGP between Company3 and Company5 and is using OSPF as its IGP. Both Company3 and Company5 are using the next-hop-self options. The external BGP routes are not being redistributed into OSPF. BGP synchronization is disabled. What happens to the packet from AS 65101 to AS 65103?

- A. Packets will be black-holed because it will be dropped by Company4.
- B. Packets will be black-holed because it will be dropped by Company5.
- C. Packets will be black-holed because it will be dropped by Company6.
- D. Packets can be transported via the Transit AS 65102 without any problems.

**Answer: C**

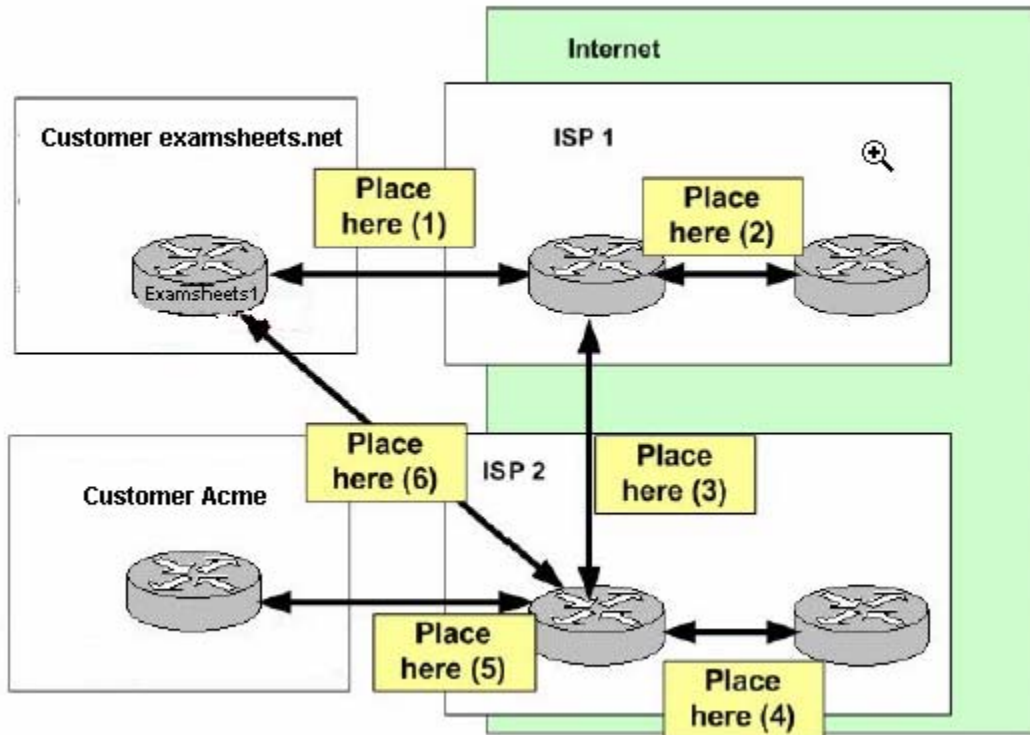
**Explanation:**

Even with synchronization off testing 6 does not know how to route the packet because OSPF does not know about the route that BGP knows about. Synchronization being off assumes that there is a full mesh of BGP routers.

**Question: 2.**

Identify the most appropriate method to connect the customers to the ISPs, to interconnect the two ISPs, and to interconnect the router within each ISP. Place the methods in their correct locations in the diagram.

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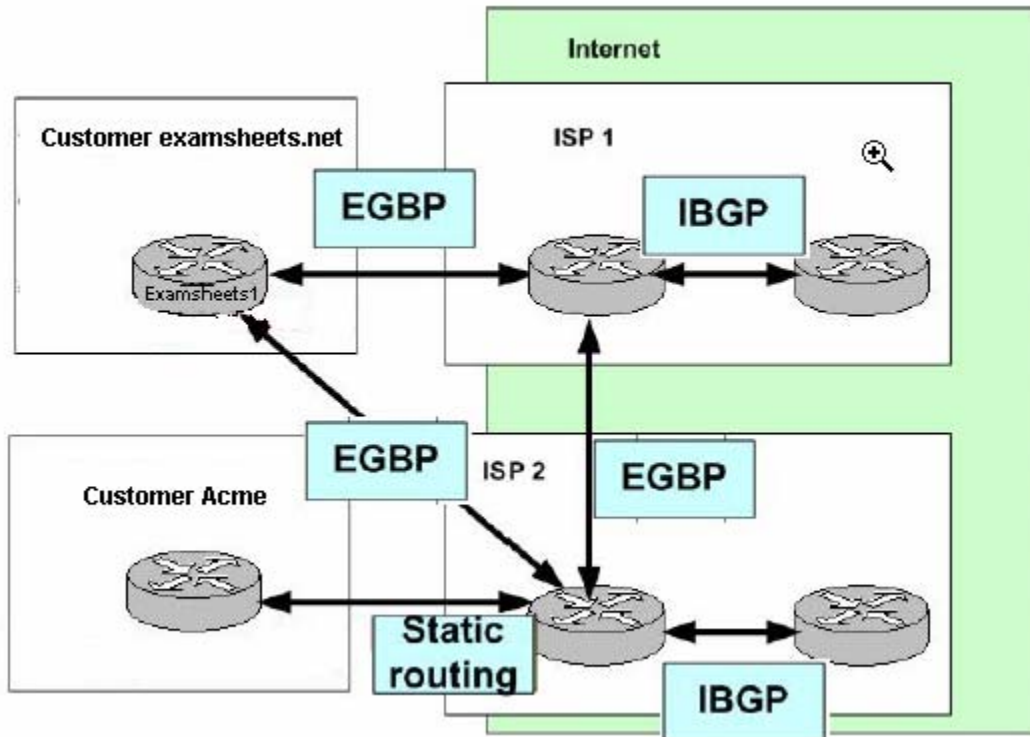


Methods, Select from these

- EGBP
- IBGP
- Static routing

**Answer:**

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Methods, Select from these



Explanation:

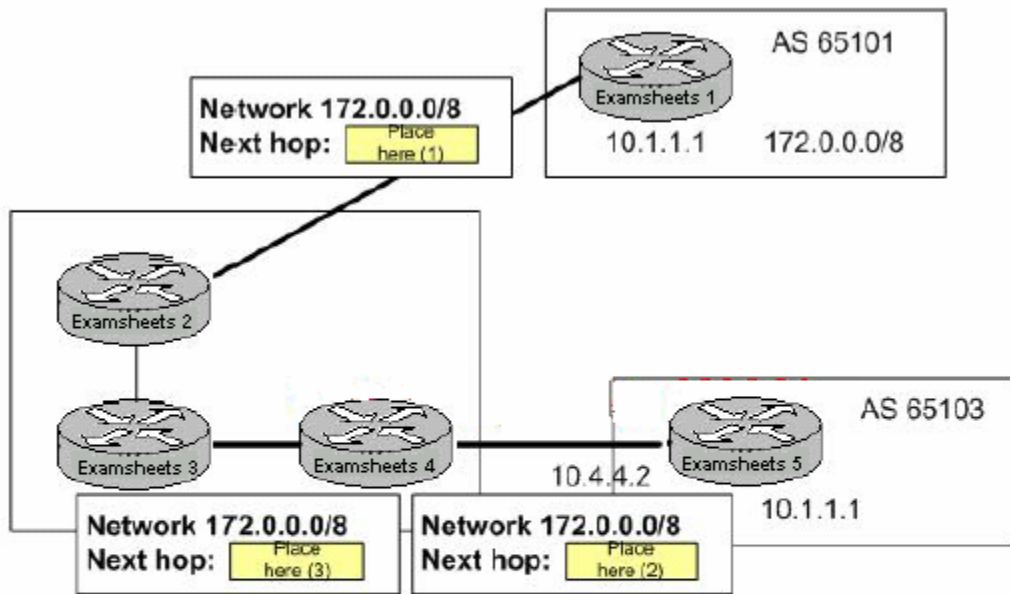
- ❖ Box1 **EGBP** Company.com 1 to ISP1. This is a multi-homed Internet connection. Most appropriate
- ❖ Box 2 **IBGP** Routers within ISP1
- ❖ Box 3 **EGBP** Between ISP1 and ISP2
- ❖ Box 4 **IBGP** Routers within ISP 2
- ❖ Box 5 **Static Routing** (Here is the catch). Because this is not a multi-homed connection the most appropriate method is static routes
- ❖ Box 6 **EGBP** Company.com 2 to ISP2. This is a multi-homed Internet connection. Most appropriate

**Question: 3.**

By default, NOT using the next-hop-self option, what is the next-hop for the 172.0.0.0/8 BGP updates shown in the diagram?

Place the correct next-hops in their locations in the diagram.

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Next-hop, Select from these

- 10.1.1.1
- 10.1.1.2
- 10.2.2.1
- 10.2.2.2
- 10.3.3.1
- 10.3.3.2
- 10.4.4.1
- 10.4.4.2

**Answer:**



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