

# Lecture 9 (2/18) Self Test

**Due** Feb 25 at 5pm

**Points** 1

**Questions** 12

**Available** Feb 18 at 5pm - Jun 1 at 5pm 3 months

**Time Limit** None

Score for this survey: **1** out of 1 \*

Submitted Feb 24 at 12:14am

This attempt took 2 minutes.

## Question 1

Did you understand how hierarchical addressing improves routing scalability?

☒ yes

☐ no

## Question 2

Did you understand how business relationships between ASes impact interdomain route selection?

☒ yes

☐ no

☐ sort of

### Question 3

Did you understand how the Spanning Tree Protocol works (STP)?

You Answered

☒ yes

☐ no

### Question 4

What range of addresses is covered by the prefix 128.8.16.0/20?

You Answered

☒ 128.8.16.0 - 128.8.16.255

☐ 128.8.16.0 - 128.8.20.255

☐ 128.8.16.0 - 128.8.24.255

☐ 128.8.16.0 - 128.8.31.255

**128.8.16.0 - 128.8.31.255**

### Question 5

Can BGP lead to domains not being able to reach other domains?

☐ yes

you Answered

☒ no

yes

## Question 6

Destinations in BGP are expressed as:

you Answered

☒ prefixes

☐ AS

☐ other

prefixes

## Question 7

Paths in BGP are expressed in terms of:

you Answered

☐ prefixes

☒ ASes

☐ other

ASes

### Question 8

The 10.0.0.0/8 network is twice as big as 10.0.0.0/16 in terms of the potential number of hosts in the network

☐ True

☒ False

False

### Question 9

The potential benefits of multi-homing include (select all that apply)

☒ Higher availability

☒ Higher throughput

☐ Fewer routing entries

Answer: Higher availability and higher throughput

## Question 10

Which of the following can improve routing scalability as measured by the number of routing entries

You Answered

☒ Hierarchical addressing

☐ An AS graph in which each AS has at most one provider

You Answered

☒ An AS graph in which each AS has multiple providers

Hierarchical addressing

and

An AS graph in which each AS has at most one provider (because this means there's no multi-homing)

## Question 11

Which of the following statements is true:

You Answered

☒ An AS will transit traffic to/from its customers

☐ An AS will transit traffic from a provider to a peer

You Answered

☒ An AS will transit traffic from a provider to a customer

You Answered

☒ An AS will transit traffic from a peer to another peer

An AS will transit traffic to/from its customers

and

An AS will transit traffic from a provider to a customer

## Question 12

Consider 5 ASes: A, B, C, D and E with the following business relationships between them: (i) A is B's provider, (ii) B and C are peers, (iii) B is D's provider, (iv) C is E's provider. Which of the following paths conform to our principles of "routing follows the money".

☒ A-B-D

☐ A-B-C-E

☐ D-B-C-E

A-B-D

and

D-B-C-E

You Answered

This survey score has been manually adjusted by +1.0 points.