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| **Started on** | Tuesday, 3 September 2024, 9:03 AM |
| **State** | Finished |
| **Completed on** | Tuesday, 3 September 2024, 9:09 AM |
| **Time taken** | 5 mins 52 secs |
| **Grade** | **4.00** out of 10.00 (**40**%) |

**Question 1**

Correct

Mark 2.00 out of 2.00

A packet bearing a destination Address 200.200.200.168 arrives at a router on which interface it will be forwarded?

| Destination Address Range | Links |
|---|---|
| 200.200.200.0 | a |
| 200.200.200.64 | b |
| 200.200.200.128 | c |
| 200.200.200.192 | d |
| 0.0.0.0 | e |

Select one or more:

- ☐ a. e
- ☐ b. b
- ☐ c. d
- ☐ d. a
- ☑ e. c ✔

The correct answer is: c

Consider the following network topology. Which of the following announcements to C are illegal? An announcement is called illegal if it does not lead to revenue to any of the provider network. Select all that apply.



Select one or more:

- [✓] a. BAw ✓
- [ ] b. ADu
- [ ] c. Bx
- [ ] d. Du

The correct answers are: BAw, ADu

**Question 3**

Incorrect

Mark 0.00 out of 2.00

S1: BGP is an example of path-vector routing protocol

S2: local pref can be used for controlling incoming traffic

Which of the following is true?

Select one or more:

- ☐ a. S1 is incorrect, S2 is correct
- ☑ b. Both S1 and S2 are correct ✗
- ☐ c. S1 is correct, S2 is incorrect
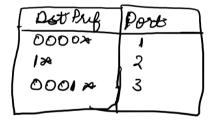- ☐ d. Both are incorrect

The correct answer is: S1 is correct, S2 is incorrect

**Question 4**

Incorrect

Mark 0.00 out of 2.00

How many entries are there in a 4-bit trie for the following forwarding table?



Select one or more:

- ☐ a. 3
- ☑ b. 18 ✗
- ☐ c. 10

The correct answer is: 10

**Question 5**

Correct

Mark 2.00 out of 2.00

Which of the following are data plane functions? Select all that apply.

Select one or more:

☑    a. Destination lookup ✓

☑    b. Switching ✓

☑    c. Buffering ✓

☐    d. Routing

The correct answers are: Switching, Destination lookup, Buffering

Jump to...  ⌄