Quiz on Mar 14

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1.

If an organization has only 4096 hosts and is assigned a class B address, what is the address efficiency achieved by it? Express in percentage. Format X (e.g. 30)

Marks: 1
Type: FILL_IN_THE_BLANKS_TYPE

Answer: ["6,6.25"]

2. How many class A prefixes are there?

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

  0) 128

  1) 256

  2) 16384

  3) 65536

Answer: [0]

3.

An organization has a physical network with 4000 hosts, what type of addresses would you assign to maximize efficiency? Format X (e.g. A)

Marks: 1
Type: FILL_IN_THE_BLANKS_TYPE

Answer: ["B,b"]

4. Which of the following is TRUE about DHCP. Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

  0) Addresses handed out by server can be used until server asks for it back via a special message

  1) DHCP operates at the network layer

  2) DHCP Request messages sent by client are unicast

  3) DHCP server passes default router information

Answer: [[3]]

5.

Address block is represented as A/X, where A is the address prefix and X is the prefix length. What is the maximum value of X? Format X (e.g. 8)

Marks: 1
Type: FILL_IN_THE_BLANKS_TYPE

Answer: ["32"]

6. Which of the following is true of subnetting? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) In subnetting, one class address is shared among many physical networks

1) In subnetting, multiple class addresses is shared among one physical network

2) All hosts on a given physical network have the same subnet number and mask

3) All routers outside organization have multiple entries against the organization for a given IP prefix.

Answer: [[0, 2]]

7.
DHCP offer (when the client is asking for an IP address for the very first time i.e. not renewing lease) is

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

0) Unicast

1) Multicast

2) Broadcast

Answer: [2]

8. Which of the following is true of ARP? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Entries in the ARP cache are maintained indefinitely

1) Gratuitous ARP are only sent as ARP requests

2) ARP replies are broadcast

3) Gratuitous ARP help detect duplicate IP addresses

Answer: [[3]]

9. Which of the following is true of traceroute? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Traceroute operates at the application layer

1) Relies on ICMP's "fragmentation required field" type/code

2) In traceroute sent messages, destination port is set to an unlikely number

3) Relies on "destination network unreachable" type/code

Answer: [[0, 2]]

10.
Which among the following ICMP message type/code does traceroute depend on

<div align="right">Marks: 1
Type: MULTIPLE_CHOICE</div>

Options:

0) TTL expired

1) Port unreachable

2) Host unknown

3) Bad IP header

Answer: [[0, 1]]