

# Quiz on Mar 11

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1.  
If an organization has only 64 hosts and is assigned a class C 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:** [ "25" ]

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2. How many class B prefixes are there?

Marks: 1

Type: SINGLE\_CORRECT\_ANSWER

**Options:**

- 0) 128
- 1) 256
- 2) 16384
- 3) 65536

**Answer:** [ 2 ]

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3. What class addresses are in high demand? Format X (e.g. D)

Marks: 1

Type: FILL\_IN\_THE\_BLANKS\_TYPE

**Answer:** [ "B,b" ]

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

Marks: 1

Type: MULTIPLE\_CHOICE

**Options:**

- 0) It employs TCP
- 1) Protocol permits use of multiple DHCP servers
- 2) It permits reuse of IP addresses
- 3) DHCP server's IP address needs to be manually configured at the host

**Answer:** [ [ 1, 2 ] ]

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5.

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

Marks: 1

Type: FILL\_IN\_THE\_BLANKS\_TYPE

Answer: [ "2" ]

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6. The bit wise end of the IP address and the subnet mask of a host gives

Marks: 1

Type: SINGLE\_CORRECT\_ANSWER

**Options:**

- 0) Broadcast address for the subnet of the host
- 1) Network address portion of the host
- 2) Multicast address of the host
- 3) Host address portion of the host

Answer: [ 1 ]

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7. Which of the following is true of supernetting? Select all that apply.

Marks: 1

Type: MULTIPLE\_CHOICE

**Options:**

- 0) One class address shared among many physical networks
- 1) Multiple class addresses shared among one physical network
- 2) All hosts on a given physical network have the same subnet number and mask
- 3) IP prefix can be of variable length

Answer: [ [ 1, 3 ] ]

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8. Which of the following is true of obtaining addresses?

Marks: 1

Type: MULTIPLE\_CHOICE

**Options:**

- 0) An organization gets an address block from an ISP
- 1) A host gets an IP address by applying to ICANN organization
- 2) IP addresses are location dependent
- 3) Manual configuration guarantees IP addresses are not duplicated

Answer: [ [ 0, 2 ] ]

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

Marks: 1

Type: MULTIPLE\_CHOICE

**Options:**

- 0) ICMP operates at the link layer
- 1) ICMP data field carries the entire (IP) datagram of the packet that caused error
- 2) ICMP is used to convey IP to MAC address mapping
- 3) ICMP helps detect if a port is unreachable

**Answer:** [[ 3 ]]

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10. 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 ]]

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