Quiz on Mar 7

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1.

Which among the following is a problem that VLANs are trying to address? Select all that apply.

Marks: 1

Type: MULTIPLE_CHOICE

Options:

0) Prevent loops in network topology

1) Lack of traffic isolation in LANs

2) Security concerns related to snooping

3) Lack of reliability over links

Answer: [[1, 2]]

2.

Which of the following is true of current Internet datagram delivery? Select all that apply.

Marks: 1

Type: MULTIPLE_CHOICE

Options:

0) Does not require connection setup

1) Guarantees minimum bandwidth

2) Suppresses duplicates

3) Delivers packets in order

Answer: [[0]]

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3. Which among the following is true of routers? Select all that apply.

Marks: 1

Type: MULTIPLE_CHOICE

Options:

0) In 1st generation routers, the bus is the bottleneck

1) In the 2nd generation routers, the CPU is the bottleneck

2) 3rd generation routers introduced a switched blackplane

3) Look up speed should be less than line speed

Answer: [[2]]

4.

In 2st generation routers, packet goes over the bus how many times? Format X (e.g. 5)

Marks: 1
Type: FILL_IN_THE_BLANKS_TYPE

Answer: ["1"]

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5. How many classes of IP addresses are there? Format X (e.g. 7)

Marks: 1
Type: FILL_IN_THE_BLANKS_TYPE

Answer: ["5"]

6.

When forwarding at a Router; If (NetNum of Dest = NetNum of one of my interfaces) then what should the router do?

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

0) Deliver packet directly to destination on that interface

1) Look up forwarding table and deliver packet to next-hop router

2) Deliver to default router

3) Drop the packet

Answer: [0]

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7. Which among the following is true of IP packet format? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) header length specifies the header in 32 bit words

1) Total length specifies length of datagram in 32-bit words

2) Type of service field helps identify the higher layer protocols

3) TTL field helps drop packets stuck in a loop

Answer: [[0, 3]]

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8. Which among the following is true of IP fragmentation? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) The reassembly of fragments is done at the next hop router

1) All fragments of a given datagram should have different identification ids

2) The first fragment has an offset value of 0

3) Fragmentation occurs because there is no space at the router buffer

Answer: [[2]]

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9. A small organization (< 100 hosts) would likely get what type of public address?

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

0) Class A

1) Class B

2) Class C

3) Class D

4) Class E

Answer: [2]

10.

Which among the following is true of IP addressing and forwarding? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Private IP addresses belong only to Class A

1) Class A addresses start with 01

2) Hosts belonging to same physical network should have same network part in the IP address

3) A router in the Internet will forward packets with destination address belonging to 10.*.*.*

Answer: [[2]]