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[Fall 233 CSE 324/CSE 3712 \(B\)](#)

[7 December - 13 December](#)

[Lab Mid](#)

Started on Friday, 8 December 2023, 11:00 AM

State Finished

Completed on Friday, 8 December 2023, 12:03 PM

Time taken 1 hour 3 mins

Marks 7.00/30.00

Grade 4.67 out of 20.00 (23%)

Question 1

Complete

Mark 1.00 out of 1.50

Refer to the "Topology-1" with the following network address, R1- R2 Link: 192.168.102.0/30, R2- R3 Link: 192.168.203.0/30 LAN-1: 192.168.1.64/26, LAN-2: 192.168.2.0/24, LAN-3: 192.168.3.0/24. **Now, you already set the File server IP address and the address is 10th IP address of the Subnetwork. Write down the IP address and subnet mask of the File server.**

ip address -192.168.1.10

subnet mask-255.255.255.192

Question **2**
Complete
Mark 0.50 out of 3.00

You have an address like 176.100.0.0/16 and 7 bits are used for subnetting. Find the subnet subnet # 40 [** Find Subnet Mask, Network Address, Broadcast Address, 1st IP Address, and Last IP Address and show the calculation]

subnet mask /24
network address 176.100.40.0
broadcast address 176.100.40511

1st ip 176.100.40.1

last ip 176.100.40.510

Question **3**
Complete
Mark 0.00 out of 1.50

You have a “Class A” network address with 12 subnet bits. Write down the subnet mask.

255.240.0.0

Question **4**

Complete

Mark 0.00 out of 1.50

Refer to the "Topology-1" with the following network address, R1- R2 Link: 192.168.102.0/30, R2-R3 Link: 192.168.203.0/30 LAN-1: 192.168.1.0/24, LAN-2: 192.168.2.0/24, LAN-3: 192.168.3.0/24. **Now configure the R2-R3 link and write the command.**

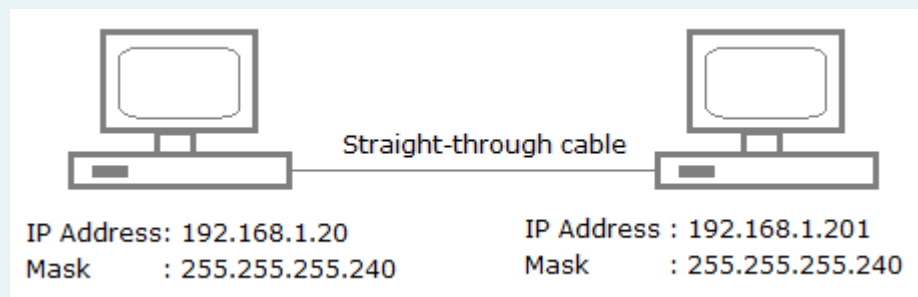
```
ip route 0.0.0.0.0.0.0.0
ip route 0.0.0.0.0.0.0.0 192.168.102.1
```

Question 5

Complete

Mark 0.00 out of 1.00

A network administrator is connecting hosts A and B directly through their Ethernet interfaces, as shown in the illustration. Ping attempts between the hosts are unsuccessful. What can be done to provide connectivity between the hosts?



1. A crossover cable should be used in place of the straight-through cable.
2. A rollover cable should be used in place of the straight-through cable.
3. The subnet masks should be set to 255.255.255.192.
4. A default gateway needs to be set on each host.
5. The subnet masks should be set to 255.255.255.0.

Select one:

- ☒ a.
1 only
- ☐ b.
3 and 4 only
- ☐ c.
1 and 5 only
- ☐ d.
2 only

The correct answer is:

1 and 5 only

Question **6**
Complete
Mark 0.00 out of 1.50

Write down the Type of cable used in the “Router to Switch”.

ethernet cable, typically cable,cat6

Question **7**
Complete
Mark 0.00 out of 1.50

You have an address of 195.162.20.179/27. Write down the Subnet Bits of the network.

Subnet Bits of the network are the first 27 bits

Question **8**
Complete
Mark 1.00 out of 1.00

Write down the Cisco IOS mode for the prompt of "Router #".

User EXEC mode

Question **9**
Not answered
Marked out of 2.00

Refer to the "Topology-5", Configure the Default Static Route from R2 to R1 router and write down the commands.

Question **10**

Not answered

Marked out of 2.00

Refer to the "Topology-1" with the following network address, R1- R2 Link: 192.168.102.0/30, R2-R3 Link: 192.168.203.0/30 LAN-1: 192.168.1.0/24, LAN-2: 192.168.2.0/24, LAN-3: 192.168.3.8/26. **Now configure the LAN-3 Router interface and write the command.**

Question 11

Not answered

Marked out of 1.00

Refer to the "Topology-1" with the following network address, R1- R2 Link: 192.168.102.0/30, R2- R3 Link: 192.168.203.0/30 LAN-1: 192.168.1.32/27, LAN-2: 192.168.2.0/24, LAN-3: 192.168.3.0/24. **Now, write down the default gateway for the Web Server.**

Question 12

Complete

Mark 1.00 out of 1.00

Which protocol does Ping use?

Select one:

- ☐ A.
ARP
- ☒ B.
ICMP
- ☐ C.
IP
- ☐ D.
TCP

The correct answer is:
ICMP

Question **13**

Complete

Mark 0.00 out of 2.00

Refer to the "Topology-3", Configure the Dynamic Routing (RIP) on R3 router and write down the commands.

```
Router(config)# router rip Router(config-router)# version 2 Router(config-router)# network  
<network_address> Router(config-router)# passive-interface <interface> Router(config-  
router)# exit Router(config)# exit Router# write memory
```

Question 14

Complete

Mark 0.00 out of 1.50

Refer to the "Topology-1" with the following network address, R1- R2 Link: 192.168.102.0/30, R2-R3 Link: 192.168.203.0/30 LAN-1: 192.168.1.0/25, LAN-2: 192.168.2.0/24, LAN-3: 192.168.3.0/24. **Now configure the LAN-1 Router interface and write the command.**

```
Router(config)# interface <interface_type> <interface_number> Router(config-if)# ip
address 192.168.1.1 255.255.255.128 Router(config-if)# no shutdown Router(config-if)# exit
Router(config)# exit Router# write memory
```

Question 15

Complete

Mark 1.50 out of 1.50

Write down the subnet mask of /23.

255.255.254.0

Question **16**
Complete
Mark 1.00 out of 1.00

What is the **last valid host** of the network 172.16.191.40/21?

172.16.191.254

Question **17**
Not answered
Marked out of 2.00

Refer to the "Topology-2", **Configure the Static Routing on R1 router and write down the commands.**

Question **18**

Complete

Mark 1.00 out of 1.00

You have 10 users plugged into a hub running 10Mbps Full-duplex. There is a server connected to the switch running 10Mbps Full-duplex as well. How much bandwidth does each host have to the server?

Select one:

- ☐ a.
100 kbps
- ☐ b.
1 Mbps
- ☒ c.
10 Mbps
- ☐ d.
2 Mbps

The correct answer is:
10 Mbps

Question **19**

Complete

Mark 0.00 out of 1.00

Which of the following types of connections can use full-duplex?

Select one:

- ☐ A.
STP Cable
- ☐ B.
Wakitoky
- ☒ C.
Radio Frequency
- ☐ D.
Coaxial Cable

The correct answer is:
STP Cable

Question **20**
Not answered
Marked out of 1.50

Refer to the "Topology-1" with the following network address, R1- R2 Link: 192.168.102.8/30, R2-R3 Link: 192.168.203.0/30 LAN-1: 192.168.1.0/24, LAN-2: 192.168.2.0/24, LAN-3: 192.168.3.0/24. **Now configure the R1-R2 link and write the command.**

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 Data retention summary