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**Started on** Tuesday, 21 November 2023, 7:56 PM

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**State** Finished

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**Completed on** Tuesday, 21 November 2023, 8:14 PM

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**Time taken** 18 mins 11 secs

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**Grade** 15.50 out of 20.00 (77.5%)

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**Question 1**

Correct

Mark 1.00 out of 1.00

According to CIDR notation, choose the range of IP address for 223.2.1.0/23

- ☐ a. 223.2.1.0 to 223.2.1.255
- ☐ b. 223.3.0.0 to 223.3.3.255
- ☐ c. 223.1.1.0 to 223.1.1.255
- ☒ d. 223.2.0.0 to 223.2.1.255 ✓

Your answer is correct.

The correct answer is:

223.2.0.0 to 223.2.1.255

**Question 2**

Partially correct

Mark 0.50 out of 1.00

Routing table consist the information related to

- ☒ a. Next Hob ✓
- ☐ b. Destination

Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Destination,

Next Hob

**Question 3**

Correct

Mark 1.00 out of 1.00

Which of the following cannot change when a device is moved from one location to another location?

- ☐ a. IP Address
- ☒ b. MAC Address ✓

Your answer is correct.

The correct answer is:

MAC Address

**Question 4**

Correct

Mark 1.00 out of 1.00

The \_\_\_\_\_ indicates how many router hops a datagram can traverse before it reaches destination.

- ☐ a. IP
- ☒ b. TTL ✓
- ☐ c. Router
- ☐ d. IPv4

Your answer is correct.

The correct answer is:

TTL

**Question 5**

Correct

Mark 1.00 out of 1.00

According to CIDR notation, choose the subnet mask for 223.1.1.2/23

- ☐ a. 255.255.255.255
- ☒ b. 255.255.254.0 ✓
- ☐ c. 255.255.255.0
- ☐ d. 255.255.255.254

Your answer is correct.

The correct answer is:

255.255.254.0


**Question 6**

Incorrect

Mark 0.00 out of 1.00

According to CIDR notation, the possible number of hosts for the IP address with 223.1.1.0/23

Note: Consider first and last addresses can also be used

- ☒ a. 510 
- ☐ b. 1024
- ☐ c. 254
- ☐ d. 512

Your answer is incorrect.

The correct answer is:


512

**Question 7**

Correct

Mark 1.00 out of 1.00

IPv6 allows \_\_\_\_\_ number of devices in a network than IPv4

- ☐ a. less
- ☐ b. same
- ☒ c. more 

Your answer is correct.

The correct answer is:

more

**Question 8**

Correct

Mark 1.00 out of 1.00

Wireless Routers are usually combination of

- ☒ a. Wireless Access Point ✓
- ☒ b. Router ✓
- ☒ c. Switch ✓

Your answer is correct.

The correct answers are:

Switch,

Router,

Wireless Access Point

**Question 9**

Correct

Mark 1.00 out of 1.00

According to CIDR notation, choose the IP address for 223.1.1.2/23

- ☐ a. 223.1.1.1
- ☐ b. 223.1.0.2
- ☐ c. 223.1.1.0
- ☒ d. 223.1.1.2 ✓

Your answer is correct.

The correct answer is:

223.1.1.2

**Question 10**

Correct

Mark 1.00 out of 1.00

What is the length of the IPv4 address?

- ☐ a. 16 bits
- ☐ b. 4 bits
- ☐ c. 64 bits
- ☒ d. 32 bits ✓

Your answer is correct.

The correct answer is:

32 bits

**Question 11**

Incorrect

Mark 0.00 out of 1.00

Each block of IPv6 consists of number of bits?

- ☐ a. 32 bits
- ☐ b. 64 bits
- ☐ c. 16 bits
- ☒ d. 128 bits ✗

Your answer is incorrect.

The correct answer is:

16 bits

**Question 12**

Correct

Mark 1.00 out of 1.00

Please select all of the valid IPv4 addresses. Check all that apply.

- ☒ a. 8.8.8.8 ✓
- ☐ b. 257.70.312.49
- ☒ c. 192.168.1.1 ✓
- ☐ d. 123.456.123.456

Your answer is correct.

The correct answers are:

8.8.8.8,  
192.168.1.1

**Question 13**

Correct

Mark 1.00 out of 1.00

Which of the following is a network layer device?

- ☐ a. Browser
- ☐ b. Cables
- ☒ c. Router ✓
- ☐ d. RJ45

Your answer is correct.

The correct answer is:

Router

**Question 14**

Correct

Mark 1.00 out of 1.00

Subnetting will improve the

- ☒ a. Easier Management ✓
- ☒ b. Network efficiency ✓
- ☒ c. Security ✓

Your answer is correct.

The correct answers are:

Security,

Network efficiency,

Easier Management

**Question 15**

Incorrect

Mark 0.00 out of 1.00

According to CIDR notation, the possible number of hosts for the IP address with 223.1.1.0/22

Note: Consider first and last addresses can also be used.

- ☐ a. 254
- ☐ b. 1024
- ☐ c. 510
- ☒ d. 1022 ✗

Your answer is incorrect.

The correct answer is:

1024



**Question 16**

Incorrect

Mark 0.00 out of 1.00

According to CIDR notation, choose the number of bits representing host ID for the 223.1.1.0/24

- ☐ a. 24
- ☐ b. 32
- ☐ c. 12
- ☒ d. 8 ✗

Your answer is incorrect.

The correct answer is:

24

**Question 17**

Correct

Mark 1.00 out of 1.00

Subnetting is the process of splitting a large network into many smaller sub networks or subnets

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

**Question 18**

Correct

Mark 1.00 out of 1.00

According to CIDR notation, choose the number of bits representing network ID for 223.1.1.0/24

- ☐ a. 12
- ☒ b. 24 ✓
- ☐ c. 32
- ☐ d. 8

Your answer is correct.

The correct answer is:

24

**Question 19**

Correct

Mark 1.00 out of 1.00

\_\_\_\_\_ forwards data between independent networks.

- ☒ a. Router ✓
- ☐ b. Browser
- ☐ c. Cables
- ☐ d. RJ45

Your answer is correct.

The correct answer is:

Router

**Question 20**

Correct

Mark 1.00 out of 1.00

Which of the following can change when a device is moved from one location to another location?

- ☒ a. IP Address ✓
- ☐ b. MAC Address

Your answer is correct.

The correct answer is:

IP Address



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