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> Week 10 Lecture (24 APR): Link layer + WLAN > Week 10 Quiz

**Started on** Wednesday, 1 May 2019, 5:09 PM

**State** Finished

**Completed on** Wednesday, 1 May 2019, 5:11 PM

**Time taken** 1 min 15 secs

**Marks** 15.00/15.00

**Grade** 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of  
1.00

Link layer focus is within

Select one:

- ☐ a. within an ISP
- ☐ b. within a LAN
- ☒ c. within a subnet ✓
- ☐ d. within a machine (host/router)

Your answer is correct.

The correct answer is: within a subnet

Question **2**

Correct

Mark 1.00 out of 1.00

Link layer is implemented

Select one:

- ☐ a. in software
- ☒ b. in a chip ✓
- ☐ c. using Java programming language because of portability
- ☐ d. within operating system

Your answer is correct.

The correct answer is: in a chip

Question **3**

Correct

Mark 1.00 out of 1.00

LAN address is also known as

Select one:

- ☐ a. TCP address
- ☐ b. IP address
- ☒ c. MAC address ✓
- ☐ d. Virtual address

Your answer is correct.

The correct answer is: MAC address

Question **4**

Correct

Mark 1.00 out of 1.00

LAN address is usually written in

Select one:

- ☒ a. Hexadecimal notation ✓
- ☐ b. Binary notation
- ☐ c. Decimal notation
- ☐ d. in words

Your answer is correct.

The correct answer is: Hexadecimal notation

Question **5**

Correct

Mark 1.00 out of 1.00

ARP is used to resolve

Select one:

- ☐ a. the IP address of a domain name
- ☐ b. the next hop address for an arriving packet
- ☒ c. the associated LAN address of an IP address ✓
- ☐ d. the associated IP address of a LAN address

Your answer is correct.

The correct answer is: the associated LAN address of an IP address

Question **6**

Correct

Mark 1.00 out of 1.00

A network admin is needed to configure an ARP table.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **7**

Correct

Mark 1.00 out of 1.00

Which of the following is an example of link layer protocol?

Select one:

- ☐ a. RIP
- ☐ b. OSPF
- ☒ c. Ethernet ✓
- ☐ d. TCP

Your answer is correct.

The correct answer is: Ethernet

Question **8**

Correct

Mark 1.00 out of 1.00

One of the main reasons for Ethernet to dominate the LAN market is because

Select one:

- ☐ a. it is engineered to perfection
- ☐ b. it can transmit data on both wired and wireless links
- ☐ c. it can be manufactured in a single chip
- ☒ d. it is simple and cheap compared to alternatives ✓

Your answer is correct.

The correct answer is: it is simple and cheap compared to alternatives

Question **9**

Correct

Mark 1.00 out of 1.00

One of the advantages of using bus-based Ethernet is that collisions can be completely avoided.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **10**

Correct

Mark 1.00 out of 1.00

Although Ethernet has many different standards supporting different speeds and physical media, they all implement the same MAC protocol.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **11**

Correct

Mark 1.00 out of 1.00

A key advantage of switch-based LAN is that collisions can be completely avoided.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **12**

Correct

Mark 1.00 out of 1.00

Forwarding tables in LAN switches are typically configured by network admin.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **13**

Correct

Mark 1.00 out of 1.00

In a LAN switch, packets

Select one:

- ☐ a. are never flooded
- ☐ b. are always flooded
- ☒ c. can be flooded sometimes ✓
- ☐ d. are flooded only when reliable service is required.

Your answer is correct.

The correct answer is: can be flooded sometimes

Question **14**

Correct

Mark 1.00 out of 1.00

If a LAN switch has flooded a packet, it means the switch did not know which LAN segment the packet came from.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **15**

Correct

Mark 1.00 out of 1.00

If a LAN switch has flooded a packet, it means the switch did not know which LAN segment the packet destination is connected to.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

