Grade Book Detail

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Exercise 4 (Chap 4)

Started: October 16, 2019, 7:00 pm
Last change: October 16, 2019, 8:15 pm

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ch4-2. A group of N stations share a 56-kbps pure ALOHA channel. Each station outputs a 1000-bit frame on an average of once every 100 sec, even if the previous one has not yet been sent (e.g., the stations can buffer outgoing frames). What is the maximum value of N?

A: 1030

Show Answer   1030

Question 1: 10 out of 10 in 1 attempt(s)

Q. What is the baud rate of the standard 10-Mbps Ethernet?
A. 20   Mbaud

Show Answer   20

Question 2: 10 out of 10 in 1 attempt(s)

Q. Consider building a CSMA/CD network running at 10 Mbps over a 1-km cable with no repeaters. The signal speed in the cable is 200,000 km/sec. What is the minimum frame size?
A. 100   bits

Show Answer   100

Question 3: 10 out of 10 in 1 attempt(s)

The reason for binary exponential backoff in the classical Ethernet is that_____

- ○ this algorithm is simple
- ○ this algorithm is fast
- ● this algorithm is adaptive to network load
- ○ this algorithm is scalable to network size

Show Answer   this algorithm is adaptive to network load

Question 4: 10 out of 10 in 1 attempt(s)

When binary exponential backoff is used, a random number between 0 and _____ is chosen and that number of slots is skipped

○ 511

◉ 1023

○ 2047

○ 4095

Show Answer 1023

Question 5: 10 out of 10 in 1 attempt(s)

A network interface card mainly works at the _____ layer(s)

◉ physical and data link

○ data link and network

○ physical and network

○ data link and transport

Show Answer physical and data link

Question 6: 10 out of 10 in 1 attempt(s)

Which is not one of the important functions provided by bridges?

○ reducing the collision domain

○ increasing the data rate

○ increasing the length of domain

◉ reducing the broadcast domain

Show Answer reducing the broadcast domain

Question 7: 10 out of 10 in 1 attempt(s)

There is a 10 Mbps Ethernet switch with 10 ports each of which is connected to a single computer. Then every computer's data rate is _____Mbps.

○ 1

○ 2

◉ 10

○ 100

Show Answer 10

Question 8: 10 out of 10 in 1 attempt(s)

_____ work at the physical layer while _____ work at the data link layer.

- ○ Hubs, routers
- ◉ Hubs, switches
- ○ Bridges, routers
- ○ Repeaters, hubs

Show Answer Hubs, switches

Question 9: 10 out of 10 in 1 attempt(s)

What kind of media used by 1000Base-F network?

- ○ Coaxial Cable
- ○ Twisted Pairs
- ◉ Fiber Optics
- ○ Power Lines

Show Answer Fiber Optics

Question 10: 10 out of 10 in 1 attempt(s)

Total: 100/100

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