CS358: End-Sem Quiz

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Questions (1 - 10)

Consider station "A" send data to station "B". Data frame contain MAC

address, IP address and port address. Which of the following address may change on intermediate router?

a. Destination IP address

b. Destination MAC address

c. Source IP address

Clear selection

Four hundred airline reservation stations are competing for the use of a single slotted ALOHA channel. An average station makes 16 request/hour where the slot is of 1000 μ s. What is the approximate total channel load?

1 point

a. 0.015

d. Source MAC address

- b. 0.0017
- C. 0.032
- O d. 0.064

A network has a data transmission bandwidth of 80 × 10^9 bps. It uses CSMA/CD in the MAC layer. The maximum signal propagation time from one node to another node is 100 nsec. The minimum size of a frame in network is bytes. O a. 2000 b. 4000 c. 8000	1 point
o d. 16000	
Clear sele	ction
Consider the flow specification having the maximum packet size 800 bytes, token bucket rate of 8 ×10^6 bytes/sec. Token bucket size is 2 MB and the maximum transmission rate 16 million bytes/sec. What is the time for which burst be send at maximum speed?	1 point
b. 0.25 sec	
C. 0.2 sec	
(d. 0.35 sec	
To allow the sender to detect a collision in CSMA/CD.	1 point
a. frames must include a checksum.	
b. frames must be encrypted and authenticated.	
c. frames need to be shorter than some propagation time in the network.	
d. frames need to be longer than some propagation time in the network.	

Which of the following MAC address represent multicast address?	1 point
a. 24 : 2B : 34 : 59 : 48 : 1B	
b. B4 : B3 : C7 : C5 : 89 : 10	
C. B3: B4: C5: C7: 10: 89	
d. Both (a) and (c)	
Consider the following statements: S1: Data link layer define the boundaries of frame because framing is always of fixed size. S2: Bit stuffing is the process of adding one extra 0 after 6th bit whenever five consecutive 1's follow a 0 in the data, if 0111110 is assumed as a flag. Which of the following option is correct?	1 point
a. Only S1 is true	
b. Only S2 is true	
c. Both S1 and S2 are true	
d. Neither S1 nor S2 is true	
Let g(x) = x3 + x2 + 1. Consider the information bits (1, 1, 0, 1, 1, 0). The Cycle Redundancy Check (CRC) bits required for codeword corresponding to these information bits if g (x) is used as the generating polynomial are	1 point

Which of the following are not true in IEEE 802.3? S1: The maxin size that is supported by IEEE 802.3 is 1500 bytes S2: The maxin payload that is supported by IEEE 802.3 is 1518 bytes S3: Minimissize and payload size are 46 and 64 bytes respectively.	num
a. Only S3	
b. Only S2 and S3	
C. Both S1 and S2	
o d. All of these	
	Clear selection
Which of the following is/are true? S1: Before an 802.11 station to data frame, it must first send an RTS frame and receive a correst CTS frame. S2: Ethernet and 802.11 use the same frame structure.	sponding
a. Only S1 is true	
b. Only S2 is true	
c. Both S1 and S2 are true	
d. Neither S1 nor S2 is true	
	Clear selection
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