Started on	Wednesday, 14 August 2024, 9:01 AM
State	Finished
Completed on	Wednesday, 14 August 2024, 9:05 AM
Time taken	3 mins 25 secs
Grade	6.00 out of 10.00 (60 %)

Question 1

Correct

Mark 2.00 out of 2.00

Given m number of nodes, each transmitting in a slot with probability p, then probability that a given node k has success in a slot is?

Select one or more:

- a. p(1-p)^{m-1}

 ✓
- b. p(1-m)^{p-1}
- c. mp
- d. mp(1-p)^{m-1}

Your answer is correct.

The correct answer is: p(1-p)^{m-1}

Question 2

Correct

Mark 3.00 out of 3.00

Let the message that we want to send is 11001 and C(x) is 1011. Calculate CRC bits.

Answer: 0111

The correct answer is: 111

Question 3

Correct

Mark 1.00 out of 1.00

A maximum of two unacknowledged frames can be in transit simultaneously in stop and wait ARQ protocol

Select one:

- True
- False ✓

The correct answer is 'False'.

Question 4 Incorrect Mark 0.00 out of 2.00	Select all cases that can lead to unnecessary duplicate frames (i.e., when original frame is correctly received) in stop-and-wait ARQ protocol? Select one or more: a. Timeout is 0.5xRTT b. Timeout is 2xRTT c. Original frame has bit errors d. Acknowledgement is lost Your answer is incorrect.	
	The correct answers are: Timeout is 0.5xRTT, Acknowledgement is lost	
E		
Question 5	Which of the following statements are correct about slotted ALOHA:	
Mark 0.00 out of	S1: The efficiency increases as the number of nodes with data to transmit increase S2: A single active node can transmit at channel bandwidth	
	Select one or more:	
	☑ a. Both are correct 🗙	
	b. S1 is correct but S2 is incorrect	
	c. S2 is correct but S1 is incorrect	
	d. Neither are correct	
	Your answer is incorrect.	
	The correct answer is: S2 is correct but S1 is incorrect	
◀ Quiz2	Jump to V	Quiz4 ▶