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Started on Wednesday, 14 August 2024, 9:01 AM

State Finished

Completed on Wednesday, 14 August 2024, 9:06 AM

Time taken 4 mins 11 secs

Grade 5.00 out of 10.00 (**50**%)

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

Your answer is correct.

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

Question 2 Incorrect	Let the message that we want to send is 11001 and C(x) is 1011. Calculate CRC bits.
Mark 0.00 out of 3.00	Answer: 1
	The correct answer is: 111
Question 3 Correct	A maximum of two unacknowledged frames can be in transit simultaneously in stop and wait ARQ protocol
	Select one:
Mark 1.00 out of 1.00	○ True
	■ False
	The correct answer is 'False'.

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