Practical 2: (Analysis) (20% of prac 2 marks) (PG students)

Due May 8 at 17:00 **Allowed Attempts** 2

Points 7 Questions 7

Available until Jun 30 at 23:59

Time Limit None

Instructions

In this quiz, you are asked to evaluate the throughput performance of alternating bit, go back n and selective repeat.

This <u>article</u> <u>re</u> (<u>https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19840003285.pdf)</u> will assist you in answering the quiz questions (it is a technical paper, so give yourself time to understand it).

You have only 2 attempts at this quiz and your mark will be the mean of your attempts, so be sure to read *carefully*, think and understand before answering. It is important that you pay close attention to the meaning of the technical words (look them up if not certain).

Attempt History

	Attempt	Time	Score
LATEST	Attempt 2	16 minutes	6 out of 7
	Attempt 1	10,371 minutes	5.67 out of 7

Score for this attempt: 6 out of 7

Submitted May 7 at 23:04

This attempt took 16 minutes.



Which of the following protocols can provide continuous transmission for applications such as satellite communications?

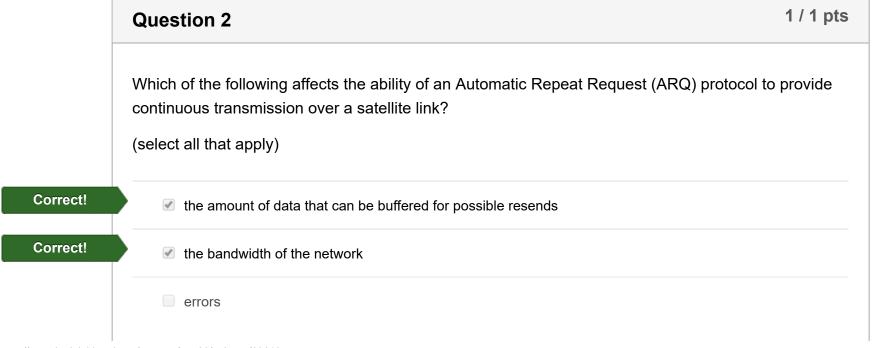
(select all that apply)

None of the above

Go Back N

Correct!
Selective Repeat

Alternating Bit



5/7/2020 Practical 2: (Analysis) (20% of prac 2 marks) (PG students): Computer Networks & Applications (3001 7039 Combined) Correct! the propagation delay in the network 1 / 1 pts **Question 3** In an error/loss/re-order free network, Alternating Bit, Selective Repeat and Go Back N will all have the same throughput. True Correct! False

In an error/loss/re-order free network, Selective Repeat and Go Back N will have the same throughput. Correct! True False

Question 5 Selective repeat provides more reliable communication than Go Back N or Alternating Bit when errors are present. True Correct! False

Question 6 0 / 1 pts

Assume a network has an error probability of 0.1 and is sending 1000 bit words with a code rate of 1/2. The round trip delay is 700 ms and the bandwidth is 1Gb/s

What would be the throughput percentage for the Go Back N protocol? Please specify the answer in decimal format and round off to 2 decimal places (for example 1.23 or 0.04 etc.)

(note: pay attention to details in this question. if you just try to put numbers into the equation without carefully considering them, you are likely to get this answer incorrect. Also remember to check your units. This is a percentage, so all units should cancel.)

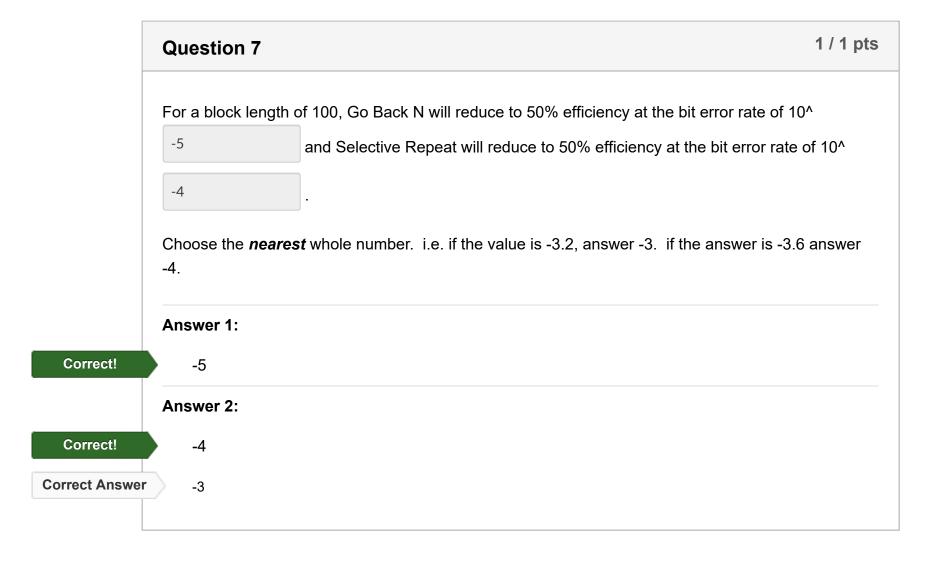
You Answered

8.99

Correct Answers

0 (with margin: 0)

0.01 (with margin: 0) 0 (with margin: 0)



Quiz Score: 6 out of 7