<u>Dashboard</u> / My cou	rses / COSC264 / Week 10: Quiz (Error Detection, Correction, and Control Problems)
/ Quiz: Error Detect	ion, Correction, and Control Problems
	Friday, 8 October 2021, 1:26 PM
State Completed on	Finished Tuesday, 12 October 2021, 11:59 PM
	4 days 10 hours
	0.00 out of 100.00
Question 1	
Not answered	
Mark 0.00 out of 2.00	
Select all the items Penalty regime: 339	that can cause transmission errors: 6, 66%, 100%
Select one or more:	
a. Faulty rout	ers
☐ b. Jamming o	f a signal
c. Thermal no	ise (noise generated by random thermal motion)
d. Weak signa	al strength
e. Jitter (varia	tions in signal timings)
f. Crosstalk (signals in one circuit interfering with signals in another circuit)
g. Interference	e (two waveforms colliding)
	rrect. sare: Thermal noise (noise generated by random thermal motion), Interference (two waveforms colliding), Weak signal ters, Jamming of a signal, Crosstalk (signals in one circuit interfering with signals in another circuit), Jitter (variations in
Question 2 Not answered Mark 0.00 out of 2.00	
	hat is the parity bit if the frame is 01010111? Sonal parity bit, rather than the full codeword %
Answer:	×

Question 3	
Not answered	
Mark 0.00 out of 2.00	
Using even parity, what is the parity bit if the frame is 01010111?	
Write just the additional parity bit, rather than the full codeword	
Penalty regime: 100%	
Answer:	×
The correct answer is: 1	
Information	
Alice sends the data block (E34F 2396 4427 99F3) to Bob.	
With this information, answer the following questions.	
Question 4	
Not answered	
Mark 0.00 out of 3.00	
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add	it to the sum.
	it to the sum.
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add	it to the sum.
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100%	
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What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100%	
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What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6 Question 5 Not answered	
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6	
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6 Question 5 Not answered	
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6 Question 5 Not answered	
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6 Question 5 Not answered Mark 0.00 out of 5.00	×
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6 Question 5 Not answered Mark 0.00 out of 5.00 Alice sends the data block (E34F 2396 4427 99F3) to Bob.	×
What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6 Question 5 Not answered Mark 0.00 out of 5.00 Alice sends the data block (E34F 2396 4427 99F3) to Bob. What is the result after the ones-complement addition on the whole data block send by Alice	×
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What is the partial sum on E34F and 2396? If there is carry on the leftmost bit, please add Please give the answer in hexadecimal. Penalty Regime: 33%, 66%, 100% Answer: The correct answer is: 06E6 Question 5 Not answered Mark 0.00 out of 5.00 Alice sends the data block (E34F 2396 4427 99F3) to Bob. What is the result after the ones-complement addition on the whole data block send by Ali Please give the answer in hexadecimal.	×
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Question 6 Not answered
Mark 0.00 out of 4.00
Compute the Internet checksum for the data block. Give the result as a hexadecimal number. Penalty Regime: 33%, 66%, 100% Answer:
The correct answer is: 1AFF
Question 7 Not answered Mark 0.00 out of 2.00
The Internet checksum in the IP header is needed even when the link layer performs perfect error checking, because: Select one:
a. this allows the packet to do Forward Error Correction (FEC) if there is a one bit error.
b. the Cyclic Redundancy Check (CRC) check is weaker than the Internet Checksum and therefore could miss out on more errors.
oc. even if it travels through the transmission medium perfectly, router memory could cause an error in the packet.
Od. every layer in the Open Systems Interconnection (OSI) model needs an error-detecting technique.
Your answer is incorrect.
The correct answer is: even if it travels through the transmission medium perfectly, router memory could cause an error in the packet.
Information
In CRC suppose we are given a divisor pattern, G=110011 and a data block D=11100011, apply CRC to detect errors. Please answer the following questions.
Question 8 Not answered
Mark 0.00 out of 4.00
What would be the size in bits of the Frame Check Sequence (FCS)?
Penalty Regime: 33%, 66%, 100%
Answer:

Question 9 Not answered	
Mark 0.00 out of 12.00	
What is the corresponding Frame Check Sequence (FCS)? Please enter the FCS in the Penalty regime 33%, 66%, 100%	binary format.
Answer:	×
The correct answer is: 11010	
Information	

Suppose there are senders A and B that want to send data between each other although there is interference on the channel connecting them. To overcome this issue both A and B agree on a Hamming code to use so that errors can be detected or corrected (depending on the severity of the error). The messages and the codewords they map to are given below.

Message	Codeword
0000	0000000
0001	0001111
0010	0010011
0011	0011100
0100	0100101
0101	0101010
0110	0110110
0111	0111001
1100	1100011
1101	1101100
1110	1110000
1111	1111111
1000	1000110
1001	1001001
1010	1010101
1011	1011010

With this information, answer the following questions.

Question 10		
Not answered		
Mark 0.00 out of 2.00		

Suppose that user A sends user B the codeword 0110110. Assuming there were no errors, what is the message that user B has received? Penalty Regime: 33%, 66%, 100%

Answer:

10/2021, 16:42	Quiz: Error Detection, Correction, and Control Problems: Attempt review
Question 11	
Not answered	
Mark 0.00 out of 2.00	
Suppose now that user B receive	es a codeword 1001011 from user A. What is the Hamming distance from 1011010?
Penalty Regime: 33%, 66%, 100%	
Answer:	x
The correct answer is: 2	
Question 12	
Not answered	
Mark 0.00 out of 2.00	
With the same codeword as before Penalty Regime: 33%, 66%, 100%	ore (1001011), what is the Hamming distance from the received codeword and 1001001?
Answer:	×
The correct answer is: 1	
Question 13	
Not answered	
Mark 0.00 out of 3.00	
With reference to the last two q	uestions, suppose user B receives 1001011 from user A. Which conclusion can B draw?
Penalty Regime: 50%, 100%	
Select one:	
a. It could either be two (or proper action.	detectable) bit errors or one (correctable) bit error. Without further configuration B cannot decide on the

- b. There is one bit error in the received block which we are able to correct.
- o. We have detected two bit errors in the received block.

The correct answer is: It could either be two (detectable) bit errors or one (correctable) bit error. Without further configuration B cannot decide on the proper action.

Question 14

Not answered

Mark 0.00 out of 2.00

There is another class of Hamming codes that are extended with an additional parity bit, providing the ability to detect up to three errors, correct up to two errors, or simultaneously correct up to one error and detect up to two errors. How would the code rate of the extended Hamming code compare to normal Hamming codes? The code rate is defined as the ratio of the number k of user data bits to the total number n of bits for the coded message (which includes the user data and redundant bits), i.e. k/n.

Penalty Regime: 100%

Select one:

- a. The code rate of the extended hamming code would be larger.
- b. The code rate of the extended hamming code would be smaller.

Your answer is incorrect.

The correct answer is: The code rate of the extended hamming code would be smaller.

Question 15

Not answered

Mark 0.00 out of 2.00

Is the Automatic Repeat Request (ARQ) protocol closed loop or open loop error control?

Penalty regime: 100%

Select one:

- a. ARQ is closed loop error control as ARQ sends feedback
- b. ARQ is open loop error control as ARQ does not send feedback

Your answer is incorrect.

The correct answer is: ARQ is closed loop error control as ARQ sends feedback

Not answered Mark 0.00 out of 3.00	Question 16
Mark 0.00 out of 3.00	Not answered
	Mark 0.00 out of 3.00

Match the following descriptions with the corresponding ARQ types.

Penalty regime: 33%, 66%, 100%

With a window size greater than 1, when an error is detected, only the frame in question is retransmitted.

For all packets, the sending station waits for an acknowledgement for the last packet before sending the next packet

When an error is detected, the frame in question is retransmitted, as well as all subsequent frames that have been previously transmitted, after the last acknowledgement.

Choose...
Choose...

Your answer is incorrect.

The correct answer is: With a window size greater than 1, when an error is detected, only the frame in question is retransmitted. \rightarrow Selective-Repeat ARQ, For all packets, the sending station waits for an acknowledgement for the last packet before sending the next packet \rightarrow Stop-and-wait ARQ, When an error is detected, the frame in question is retransmitted, as well as all subsequent frames that have been previously transmitted, after the last acknowledgement. \rightarrow Go-back-N ARQ

Question 17
Not answered
Mark 0.00 out of 2.00

If stop and wait is treated like a sliding window scheme, what is the maximum window size?

Penalty Regime: 33%, 66%, 100%

Select one:

- a. 0
- O b. 1
- 0 c. 2
- Od. 3
- e. 4

Your answer is incorrect.

The correct answer is: 1

Information

Two neighbour nodes (A and B) use the ARQ mechanism stop-and-wait for their data transfer. Assuming A is transmitting and B is receiving, show the number of usable sequence numbers at A for the following succession of events.

1	5/1	0/2	ი21	16:42

Question 18 Not answered

Mark 0.00 out of 2.00

After A sends frame 0, but before A receives an acknowledgement from B for 0, the number of usable sequence numbers at A becomes

X .

Penalty regime: 33%, 66%, 100%

Question 19

Not answered

Mark 0.00 out of 2.00

After A sends frames 0 and receives acknowledgement from B for 0, the number of usable sequence number at A

X .

Penalty regime: 33%, 66%, 100%

Information

Two neighbor nodes (A and B) use go-back-N with a 3-bit sequence number and a window size of N=4. Assuming A is transmitting and B is receiving, show the window positions (sequence numbers currently in the window) for the following succession of events.

Question 20

Not answered

Mark 0.00 out of 2.00

Before A sends any frames, the number of usable sequence numbers of A is

× .

Penalty regime: 33%, 66%, 100%

Question 21

Not answered

Mark 0.00 out of 2.00

Before A sends any frame, the first usable sequence number in the sliding window of A is

X .

Penalty regime: 33%, 66%, 100%

10/2021, 16:42	Quiz: Error Detection, Correction, and Control Problems: Attempt review
Question 22	
Not answered	
Mark 0.00 out of 2.00	
After A sends frames 0, 1, 2 and receives acknowledge * . Penalty regime: 33%, 66%, 100%	nowledgement from B for 0 and 1, the number of usable sequence number of A becomes
Question 23	
Not answered	
Mark 0.00 out of 2.00	
After A sends frames 0, 1, 2 and receives acknowledge with the sends frames 3, 1, 2 and receives acknowledge with the sends frames 3, 2, 2, 2, 3, 2, 3, 4, 2, 3, 4, 4, 5, 5, 6, 6, 7, 100%	nowledgement from B for 0 and 1, the sequence number of the next new frame of A is
Question 24 Not answered Mark 0.00 out of 2.00	
After B receives frames 0, 1, 2 and acknowleds Representation of the second se	ges 0, 1, 2, B expects the sequence number of the next in-order packet to be
Question 25 Not answered Mark 0.00 out of 2.00	
After A sends frames 3, 4, and 5 and B acknow becomes Representation of the second se	wledges 4 and the ACK is received by A, the number of usable sequence numbers at A

Question 26	
Not answered	
Mark 0.00 out of 2.00	
After B receives frames 3 and 4, B expects the sequence number of the next in-order packet to be Repeated to be 2. The sequence number of the next in-order packet to be 2. The sequence number of the next in-order packet to be 2. The sequence number of the next in-order packet to be 3. The sequence number of the next in-order packet n	
Question 27	
Not answered Mark 0.00 out of 2.00	
A sends frames 4, 5, 6, 7 but receives ACK4 only. What frames are resent after A experiences a timeout? Select all the frames that would be resent. Penalty regime: 33%, 66%, 100% Select one or more:	
□ a. 4	
□ b. 5	
□ c. 6	
□ d. 7	
Your answer is incorrect.	
The correct answers are: 5, 6, 7	
Information	

Two neighbor nodes (A and B) use Selective Repeat with a 3-bit sequence number and a window size of N=4. Assuming A is transmitting and B is receiving, please answer the following questions.

Question 28 Not answered Mark 0.00 out of 2.00 After A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly, which ACKs will B send to A? Penalty regime: 33%, 66%, 100% Select one or more: a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3 Question 29 Not answered Mark 0.00 out of 2.00 After A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly, which frame(s) will B deliver to the upper layer?	
After A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly, which ACKs will B send to A? Penalty regime: 33%, 66%, 100% Select one or more: a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3	
After A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly, which ACKs will B send to A? Penalty regime: 33%, 66%, 100% Select one or more: a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3 Question 29 Not answered Mark 0.00 out of 2.00	
Penalty regime: 33%, 66%, 100% Select one or more: a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3	
Penalty regime: 33%, 66%, 100% Select one or more: a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3	
Penalty regime: 33%, 66%, 100% Select one or more: a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3	
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a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3 Question 29 Not answered Mark 0.00 out of 2.00	
a. ACK0 b. ACK2 c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3 Question 29 Not answered Mark 0.00 out of 2.00	
c. ACK3 d. ACK1 Your answer is incorrect. The correct answers are: ACK0, ACK2, ACK3 Question 29 Not answered Mark 0.00 out of 2.00	
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Not answered Mark 0.00 out of 2.00	
Mark 0.00 out of 2.00	
After A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly, which frame(s) will B deliver to the upper layer?	
After A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly, which frame(s) will B deliver to the upper layer?	
Penalty regime: 33%, 66%, 100%	
Select one or more:	
□ b. 2	
□ c. 1	
□ d. 0	
Vour answer is incorrect	

Not answered

Mark 0.00 out of 3.00

First A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly; B then sends back a few ACKs, delivers in-order frame(s) and buffers out-of-order frame(s); after a while B receives frame 0 again. Which action(s) will B take?

Penalty regime: 33%, 66%, 100%

Select one:

- igcup a. B ignores this frame and does nothing;
- b. B sends back ACK0;
- oc. B sends back ACK2 and ACK3;
- d. B sends back ACK1;

Your answer is incorrect.

The correct answer is: B sends back ACKO;

Question 32	
Not answered	
Mark 0.00 out of 2.00	
First A sends frames 0, 1, 2, 3 and B reare in A's window?	eceives frames 0, 2, 3 correctly; then B sends ACKs but A receives ACK0 only. Which sequence numbers
Penalty regime: 33%, 66%, 100%	
Select one or more:	
a. 4	
□ b. 1	
□ c. 2	
☐ d. 3	
■ e. 0	

The correct answers are: 1, 2, 3, 4

Question **33**Not answered

Mark 0.00 out of 2.00

First A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly; then B sends ACKs but A receives ACK0 only. Which frame(s) will be retransmitted on timeout at A?

Penalty regime: 33%, 66%, 100%

Select one or more:

a. 3

□ b. 0

__ c. 2

d. 1

Your answer is incorrect.

Question **34**Not answered

Mark 0.00 out of 2.00

First A sends frames 0, 1, 2, 3 and B receives frames 0, 2, 3 correctly; then B sends back ACKs, delivers in-order frame(s) and buffers out-of-order frame(s). After a while B receives frame 1 correctly. Now which frame(s) will be delivered to the upper layer at B?

Penalty regime: 33%, 66%, 100%

Select one or more:

- a. 1
- b. 2
- c. 3
- d. 0

Your answer is incorrect.

The correct answers are: 1, 2, 3

Question 35

Not answered

Mark 0.00 out of 2.00

Suppose that a selective-repeat ARQ is used with a window size of 8, what is the minimum number of bits for a sequence number to stop acknowledgements being misidentified? Think about the case in which the sequence number loops back around.

Penalty regime: 33%, 66%, 100%

Select one:

- a. 1
- o b. 2
- Oc. 3
- Od. 4
- e. 5

Your answer is incorrect.

24	
uestion 3 (5
ot answer	
ark 0.00 o	ut of 2.00
	of the following statements are correct about TCP flow control?
Penalty	regime: 33%, 66%, 100%
Select o	ne or more:
a.	TCP flow control is a speed-matching service.
□ b.	In TCP flow control, the sender maintains a variable called receive window (RcvWindow) which tells itself how much free buffer space is available at the receiver.
_ c.	TCP flow control is the same as TCP congestion control.
□ d.	TCP specification requires the sender to continue to send one-data-byte segments to its receiver even if the receiver's buffer is ful
Your an	
	swer is incorrect.
The cor	
	rect answers are: TCP flow control is a speed-matching service., In TCP flow control, the sender maintains a variable called receive
windov	
windov	rect answers are: TCP flow control is a speed-matching service., In TCP flow control, the sender maintains a variable called receive (RcvWindow) which tells itself how much free buffer space is available at the receiver. , TCP specification requires the sender to
windov continu	rect answers are: TCP flow control is a speed-matching service., In TCP flow control, the sender maintains a variable called receive (RcvWindow) which tells itself how much free buffer space is available at the receiver., TCP specification requires the sender to e to send one-data-byte segments to its receiver even if the receiver's buffer is full.
windov	rect answers are: TCP flow control is a speed-matching service., In TCP flow control, the sender maintains a variable called receive (RcvWindow) which tells itself how much free buffer space is available at the receiver. , TCP specification requires the sender to e to send one-data-byte segments to its receiver even if the receiver's buffer is full.
windov continu uestion 37	rect answers are: TCP flow control is a speed-matching service., In TCP flow control, the sender maintains a variable called receive (RcvWindow) which tells itself how much free buffer space is available at the receiver., TCP specification requires the sender to e to send one-data-byte segments to its receiver even if the receiver's buffer is full.
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window continu uestion 37 ot answere ark 0.00 o When T retransr Penalty Select o a.	rect answers are: TCP flow control is a speed-matching service., In TCP flow control, the sender maintains a variable called receive (RcvWindow) which tells itself how much free buffer space is available at the receiver., TCP specification requires the sender to e to send one-data-byte segments to its receiver even if the receiver's buffer is full. 7 ed ut of 2.00 CP does the round-trip time sampling, it never computes a sample round-trip time (SampleRTT) for a segment that has been nitted. Why? regime: 33%, 66%, 100% one or more: If a sender retransmits a segment and receives its ACK, it does not know whether this ACK corresponds to the earlier segment or retransmitted segment. The round-trip time estimation becomes inaccurate.

The correct answer is: If a sender retransmits a segment and receives its ACK, it does not know whether this ACK corresponds to the earlier segment or the retransmitted segment. The round-trip time estimation becomes inaccurate.