Score for this quiz: **0** out of 73 Submitted Jun 9 at 12:17pm

This attempt took less than 1 minute.

three

none

Correct Answer

Unanswered	Question 1	0 / 1 pts
	Which of the following binary numbers represents 10.12.16.6?	
	10001001.11010101.11111111.00000000	
	00010000.00000110.00010000.00000110	
Correct Answer	00001010.00001100.00010000.00000110	
Unanswered	Question 2	0 / 1 pts
	A Class A IP address uses the last octet(s) for the host ID. The host ID is the unique part and identifies the individual user and pareason 50% of all IP addresses are Class A?	art of the
	one	
	O two	

Unanswered	Question 3	0 / 1 pts
	In ARP/RARP Message OPERATION field is	
Correct Answer	16-bits	
	O 6-bits	
	8-bits	
	2-bits	

Unanswered	Question 4	0 / 1 pts
	Which of the following is a Class B address?	
	193.17.101.27	
	211.244.212.5	
	126.15.16.122	
Correct Answer	129.16.12.200	

Question 5	0 / 1 pts
Which of the following is not done by TCP?	
Error checking	
Sequencing	
O Flow control	
Subnetting	
	Which of the following is not done by TCP? Error checking Sequencing Flow control

Unanswered	Question 6	0 / 1 pts
	Using the TCP/IP protocol when is a subnet mask required?	
	only when connecting outside the LAN	
	only when using TCP/IP	
Correct Answer	of for both intranet and internet usage	

Unanswered	Question 7	0 / 1 pts
	A protocol that functions at the network layer of the OSI model?	

	○ TCP	
Correct Answer	○ IP	
	O UDP	
	SSP	
[
Unanswered	Question 8	0 / 1 pts
	In ARP/RARP Message SENDER IP field is	
Correct Answer	4-octets	
	4-bits	
	32-octets	
	16-bits	
Unanswered	Question 9	0 / 1 pts
	The following figure shows two routers. If 1st router has in IP of 192.168.1.1 then what could be the possible IP address of a machin to any LAN port of 2nd router?	e connected
Correct Answer	192.168.2.X	

	○ 192.168.1.X	
	192.172.1.0	
	None of the above	
		0 / 1 pts
Unanswered	Question 10	0 / 1 μις
	Every active IP address has a corresponding NIC card address	
Correct Answer	True	
	○ False	
Unanswered	Question 11	0 / 1 pts
	IP address isbit binary number	
	© 8	
	<u> </u>	
Correct Answer	32	

64			

Unanswered	Question 12	0 / 1 pts
	Which of the following is non routable IP address?	
Correct Answer	209.32.242	
	172.15.42.34	
	192.168.0.1	
	0 10.14.16.12	

Unanswered	Question 13 0 / 1 pts
	You have a network ID of 172.16.0.0 with eight subnets. You need to allow for the largest possible number of host IDs per subnet. Which subnet mask should you assign?
Correct Answer	255.255.252.0
	255.255.248.0
	255.255.240.0
	255.255.224.0

0 / 1 pts **Question 14 Unanswered** Examine the diagram shown here. What is the most likely reason that user Spencer cannot communicate with user Evan? User: Evan User: Spencer IP address: 192.168.1.127 IP address: 192.168.1.121 Subnet mask: 255.255.255.0 Subnet mask: 255.255.248.0 Default gateway: 192.168.1.1 Default gateway: 192.168.1.1 There is no problem identifiable by the values given. Correct Answer The subnet values should be the same. Spencer's IP address is not a loopback address. The default gateways should have different values. 0 / 1 pts **Question 15** Unanswered You have a network ID of 172.16.0.0 and you need to divide it into multiple subnets. You need 600 host IDs for each subnet. Which subnet mask should you assign that will allow for growth?

Correct Answer

255.255.252.0

255.255.248.0

255.255.240.0		
255.255.224.0		

Unanswered	Question 16	0 / 1 pts
	Class A IP addresses can accommodate 16 million hosts while a Class B can accommodate?	
	4 million.	
Correct Answer	65,534	
	O 254	

Question 17	0 / 1 pts
Only computers with the same can communicate without a router.	
Network ID	
O Host IP	
O Subnet mask	
○ IP address	
	Only computers with the same can communicate without a router. Network ID Host IP Subnet mask

Unanswered	Question 18 0 / 1 pts	
	According to RFC 1918 this range of Class A IP addresses are reserved for private intranets and are not supposed to be used on the internet (where x is any number from 1 to 254)?	
Correct Answer	0 10.x.x.x	
	○ 20.x.x.x	
	○ 30.x.x.x	
	30.1.x.x	

Unanswered	Question 19	0 / 1 pts
	Which of the following is class A IP address?	
	209.123.32.212	
	O 172.15.42.34	
	127.0.0.1	
Correct Answer	0 10.14.16.12	

Unanswered	Question 20 0 / 1 pts
	If you have an IP address of 172.16.13.5 with a 255.255.255.128 subnet mask. What is your class of address, subnet address, and broadcast address?
Correct Answer	Class B, Subnet 172.16.13.0, Broadcast address 172.16.13.127
	Class B, Subnet 172.16.0.0, Broadcast address 172.16.255.255
	Class B, Subnet 172.16.13.0, Broadcast address 172.16.13.255
	Class A, Subnet 172.16.13.0, Broadcast address 172.16.13.127

You have been assigned to set up a new network with TCP/IP. For the external interfaces, you decide to obtain registered IP addresses from your ISP, but for the internal network, you choose to configure systems by using one of the private address ranges. Of the following address ranges, which one would you not consider? 172.16.0.0 to 172.31.255.255 10.0.0.0 to 10.255.255.255 131.16.0.0 to 131.16.255.255

Unanswered	Question 22	0 / 1 pts
	Which of the following is class B IP address?	
	209.123.32.212	
Correct Answer	172.15.42.34	
	127.0.0.1	
	0 10.14.16.12	

Unanswered	Question 23	0 / 1 pts
	Given the IP address 126,110,16,7 what class of address is it?	
Correct Answer		
	Ов	
	○ c	
	O D	

Unanswered

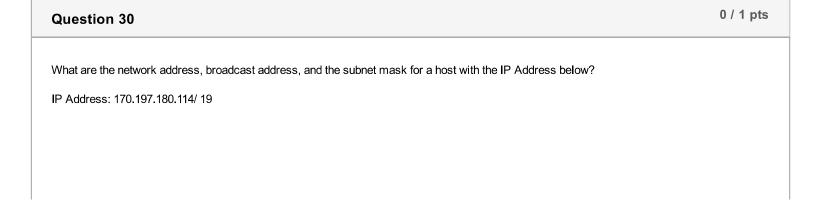
Question 24 0 / 1 pts

	OSI layer responsible for error checking frames and adding MAC addresses to its tables?	
	Physical layer	
Correct Answer	O Data-link	
	○ Transport	
	Presentation	
Unanswered	Question 25 0 / 1 pts	
Correct Answer	You ask your ISP to assign a public IP address for the external interface of your Windows 2008 server, which is running a proxy server application. In the email message you get that contains the information, the ISP tells you that you have been assigned the IP address 203.15.226.12/24. When you fill out the subnet mask field on the IP configuration dialog box on your system, what subnet mask should you use? 255.255.255.240	
Correct Answer	255.255.255.0 255.255.255.255	
Unanswered	Question 26 0 / 1 pts	
	The TCP/IP protocol used on the internet allows for approximately billion unique IP addresses?	

	⊖ 1	
Correct Answer	0 4	
	<u> </u>	
Unanswered	Question 27	0 / 1 pts
	Which of the following is class C IP address?	
	0 10.14.12.16	
	127.0.0.1	
Correct Answer	210.24.56.76	
	124.12.13.44	
l		
Unanswered	Question 28	0 / 1 pts
	Simple subnetting involves transferring bits from host to network ID in groups of	
	○ Two	

	Four
	Six
Correct Answer	□ Eight

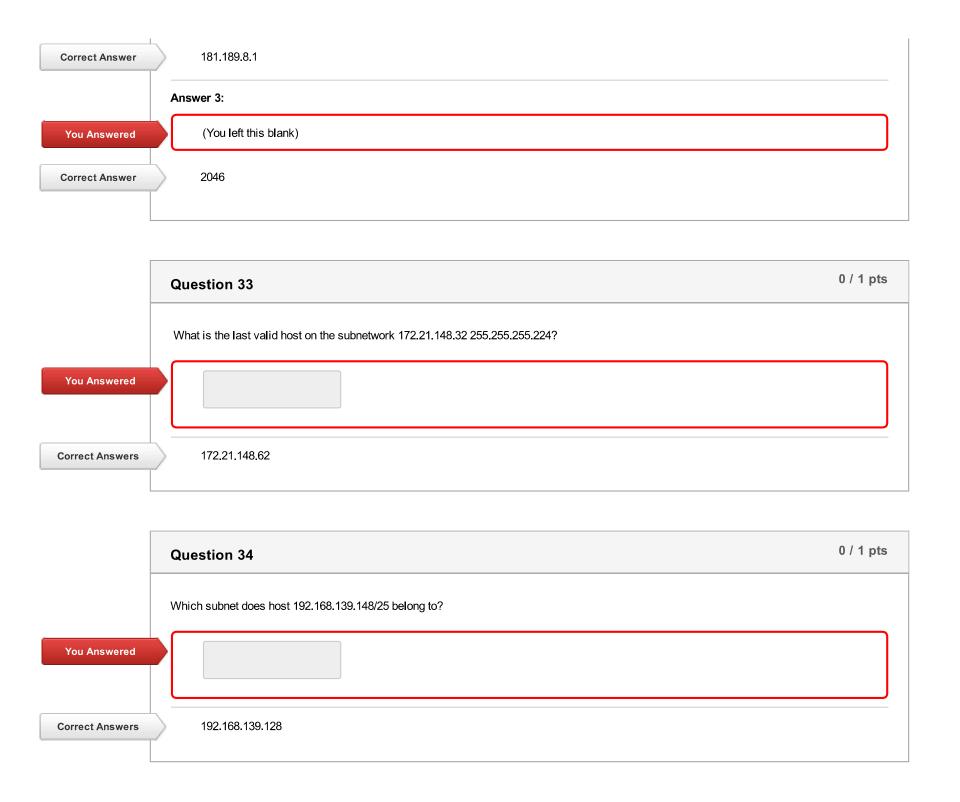




	A Network Address: Broadcast Address: Sunbet Mask:
	Answer 1:
You Answered	(You left this blank)
Correct Answer	170.197.160.0
	Answer 2:
You Answered	(You left this blank)
Correct Answer	170.197.191.255
	Answer 3:
You Answered	(You left this blank)
Correct Answer	255.255.224.0

Question 31	0 / 1 pts
What valid host range is the IP address 172.28.244.59 255.255.255.128 a part of?	
172.28.244.1 through to 172.28.244.127	
	What valid host range is the IP address 172.28.244.59 255.255.255.128 a part of?

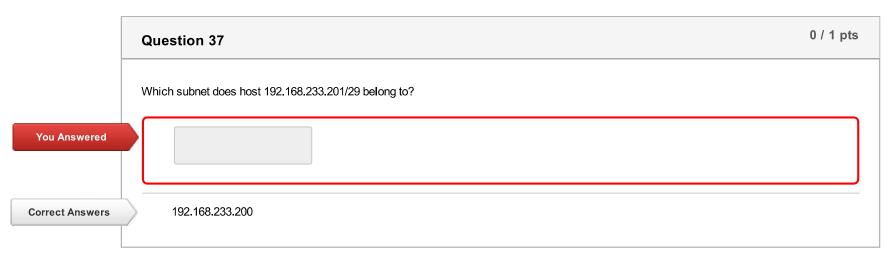
	172.28.244.2 through to 172.28.244.126
	172.28.244.2 through to 172.28.244.127
Correct Answer	172.28.244.1 through to 172.28.244.126
	Question 32 0 / 1 pts
	What are the subnet mask, first available host address of subnet one (NOT subnet zero), and the maximum number of hosts per subnet for the network below? You need to allow for maximum number of hosts. Also, you can use subnet zero and the all-ones subnet. Network ID: 181.189.0.0 Subnets Required: 27 A Subnet Mask: 1st Available Host Address of Subnet 1: Max # of hosts/subnet:
	Answer 1:
You Answered	(You left this blank)
Correct Answer	255.255.248.0
	Answer 2:
You Answered	(You left this blank)



	Question 35	0 / 1 pts
	What is the broadcast address of the network 10.95.128.0/20?	
You Answered		
Correct Answers	10.95.143.255	

	Question 36	0 / 1 pts
	What are the network address, broadcast address, and the subnet mask for a host with the IP Address below?	
	IP Address: 124. 95. 2. 200/ 21	
	A Network Address:	
	Broadcast Address:	
	Sunbet Mask:	
	Answer 1:	
You Answered	(You left this blank)	
Correct Answer	124.95.0.0	
	Answer 2:	
	•	





Question 38 0 / 1 pts

What are the subnet mask, first available host address of subnet one (NOT subnet zero), and the maximum number of hosts per subnet for the network below?

You need to allow for maximum number of hosts. Also, you can use subnet zero and the all-ones subnet.

Network ID: 133.200.0.0 Subnets Required: 101

	A Subnet Mask:
	1st Available Host Address of Subnet 1:
	Max # of hosts/subnet:
	Answer 1:
You Answered	(You left this blank)
Correct Answer	255.255.254.0
	Answer 2:
You Answered	(You left this blank)
Correct Answer	133.200.2.1
	Answer 3:
You Answered	(You left this blank)
Correct Answer	510

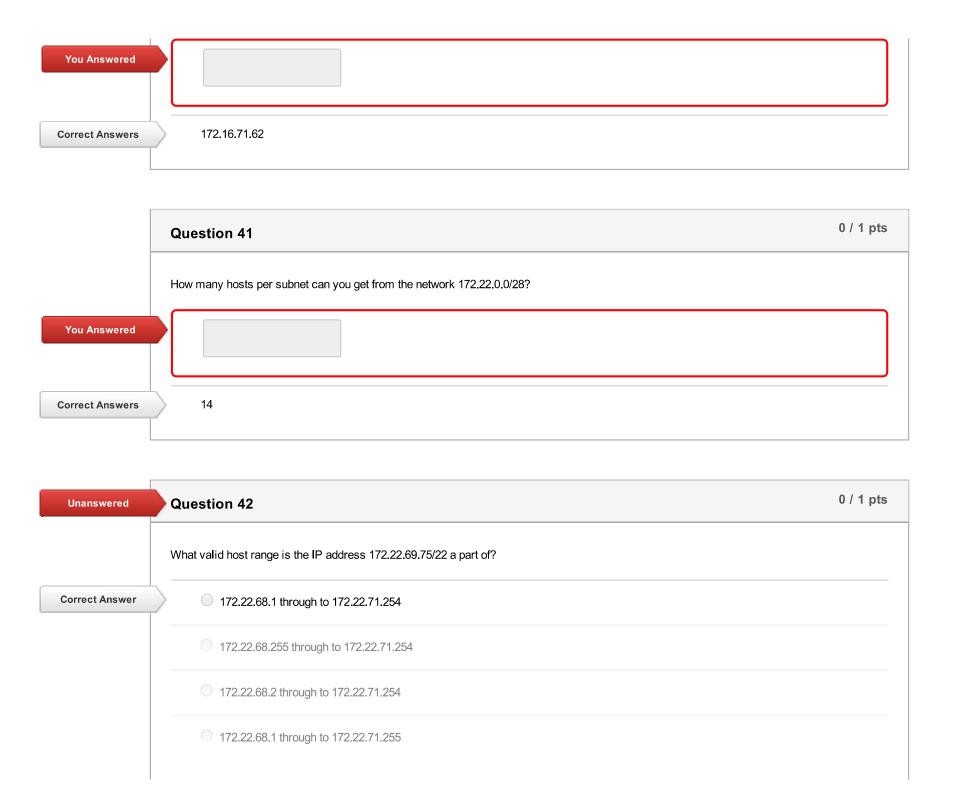
Question 39 0 / 1 pts

What are the subnet mask, first available host address of subnet one (NOT subnet zero), and the maximum number of hosts per subnet for the network below?

You need to allow for maximum number of hosts. Also, you can use subnet zero and the all-ones subnet.

		Network ID: 210,105,27,0 Subnets Required: 13
	,	A Subnet Mask:
		1st Available Host Address of Subnet 1:
		Max # of hosts/subnet:
		Answer 1:
You Answered		(You left this blank)
Correct Answer		255.255.255.240
		Answer 2:
You Answered		(You left this blank)
Correct Answer		210.105.27.17
	,	Answer 3:
You Answered		(You left this blank)
Correct Answer		14

Question 40	0 / 1 pts
What is the last valid host on the subnetwork 172.16.71.48 255.255.250?	





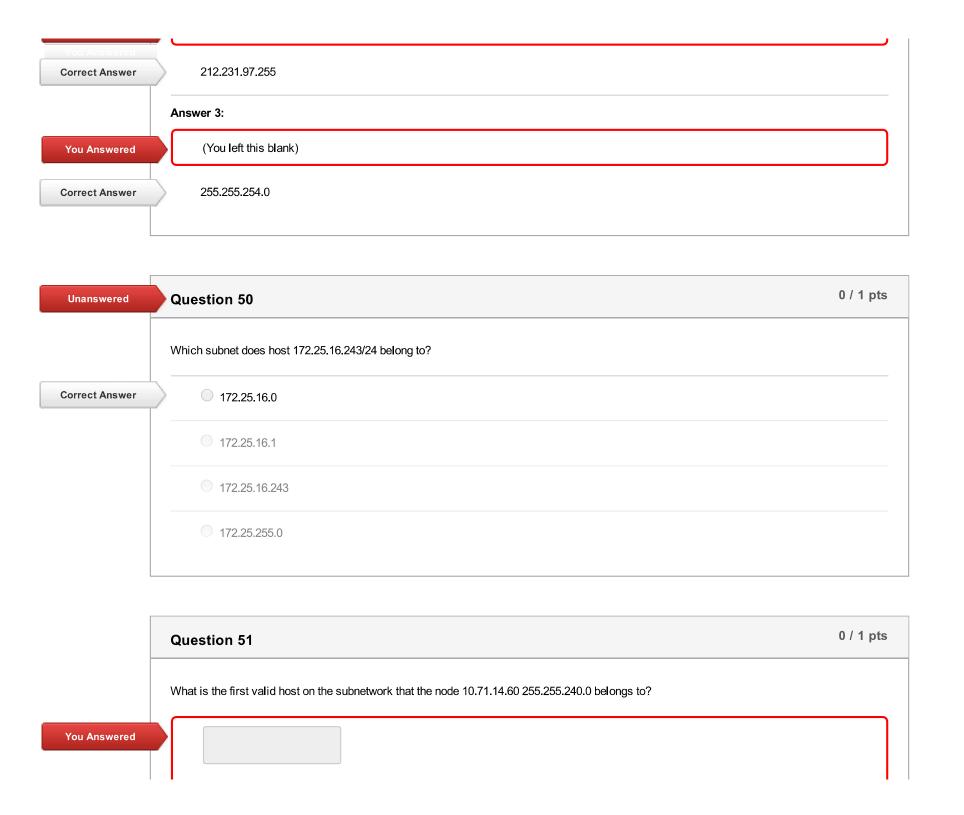


Question 45	0 / 1 pts
How many hosts per subnet can you get from the network 172.20.0.0/27?	

You Answered Correct Answers	30	
	Question 46	0 / 1 pts
	What is the last valid host on the subnetwork 172.17.104.0 255.255.248.0?	
You Answered		
Correct Answers	172.17.111.254	
_		
	Question 47	0 / 1 pts
	What is the first valid host on the subnetwork that the node 172.23.246.213/28 belongs to?	
You Answered		
Correct Answers	172.23.246.209	

	Question 48	0 / 1 pts
	What is the broadcast address of the network 172.30.140.0 255.255.254.0?	
You Answered		
Correct Answers	172.30.141.255	

	Question 49	0 / 1 pts
	What are the network address, broadcast address, and the subnet mask for a host with the IP Address below?	
	IP Address: 212.231.96.177 / 23	
	A Network Address:	
	Broadcast Address:	
	Sunbet Mask:	
	Answer 1:	
You Answered	(You left this blank)	
Correct Answer	212.231.96.0	
	Answer 2:	
	(You left this blank)	



Correct Answers

10.71.0.1

	Question 52	0 / 1 pts
	How many subnets can you get from the network 172.20.0.0/27?	
You Answered		
Correct Answers	2048	

Unanswered	Question 53	0 / 1 pts
	What valid host range is the IP address 192.168.159.171 255.255.255.248 a part of?	
Correct Answer	192.168.159.169 through to 192.168.159.174	
	192.168.159.168 through to 192.168.159.175	
	192.168.159.168 through to 192.168.159.174	
	192.168.159.169 through to 192.168.159.175	

Unanswered	Question 54	0 / 1 pts
	Cyclic Redundancy Check(CRC)	
	none of the above	
	One of the most powerful error-correction codes	
Correct Answer	One of the most powerful error-detecting codes	

Unanswered	Question 55	0 / 1 pts
	If the ASCII character G is sent and the character D is received, what type of error is this? Single-bit Multiple-bit Burst Recoverable	
	Recoverable	
Correct Answer	Burst	
	Multiple-bit	
	○ Single-bit	

Question 56	0 / 1 pts
Compute the CRC-4 character for the following message using a "divisor" constant of 10011:1100 0110 1011 01	

You Answered Correct Answers	1001	
Unanswered	Question 57	0 / 1 pts
	Which error detection method consists of a parity bit for each data unit as well as an entire data unit of parity bits?	
	○ CRC	
Correct Answer	Two-dimensional parity check	
	Checksum	
	Simple parity check	
Unanswered	Question 58	0 / 1 pts
	In CRC there is no error if the remainder at the receiver is	
Correct Answer	Zero	
	Equal to the remainder at the sender	
	The quotient at the sender	

	Nonzero	
Unanswered	Question 59	0 / 1 pts
	At the CRC checker, means that the data unit is damaged.	
	A string of alternating 1s and 0s	
Correct Answer	A nonzero remainder	
	A string of 0's	
	A string of 1's	
Unanswered	Question 60	0 / 1 pts
	At the CRC generator, added to the data unit after the division process.	
	O's are	
	1's are	
Correct Answer	The CRC remainder is	

Question 61	0 / 1 pts
The polynomial is	

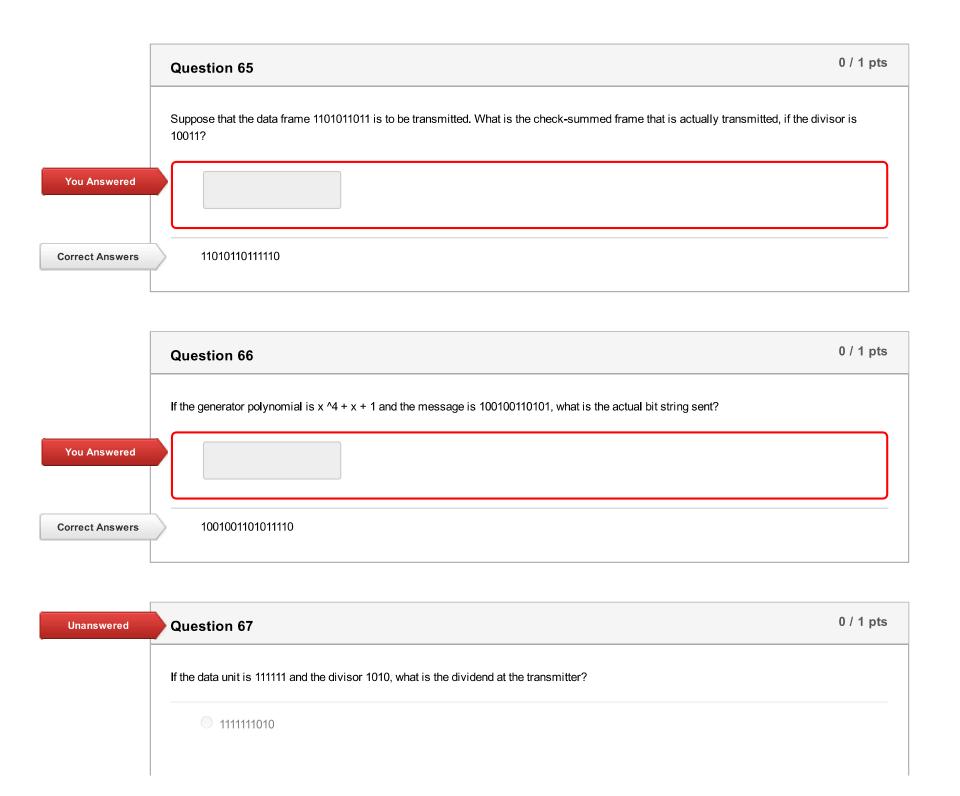
Unanswered	Question 61	0 / 1 pts
	At the CRC generator, added to the data unit before the division process.	
	A polynomial is	
	A CRC remainder is	
Correct Answer	O's are	
	1's are	

Unanswered	Question 62	0 / 1 pts
	Which of the following best describes a single-bit error?	
	Any of the above	
Correct Answer	A single bit is inverted per data unit.	
	A single bit is inverted per transmission.	

Į.		
ı		
	Question 63	0 / 1 pts
	The reference polynomial used in a CRC scheme is $x^4 + x^3 + 1$. A data sequence 1010101010 is to be sent. Determine the actual that is transmitted.	bit string
You Answered		
Correct Answers	10101010100010	
Unanswered	Question 64	0 / 1 pts
	Which error detection method uses ones complement arithmetic?	
	○ CRC	
	Simple parity check	
Correct Answer	Checksum	

A single bit is inverted.

Two-dimensional parity check



	O 111111	
Correct Answer	111111000	
	1111110000	
Unanswered	Question 68	0 / 1 pts
	Which error detection method can detect a burst error?	
	☐ The parity check	
Correct Answer	Two-dimensional parity check	
Correct Answer	CRC	
Unanswered	Question 69	0 / 1 pts
	Given the generator function $G(x) = x^4 + x + 1$ and the message function $M(x) = x^7 + x^6 + x^4 + x^2 + x$: (a) Calculate the transmission is damaged, such that the receiver receives $R(x) = x^{11} + x^9 + x^8 + x^7 + x^6$. Will this error be detected?	
Correct Answer	○ True	

False
Question 70 0 / 1 pts
Which error detection method involves the use of parity bits?
Simple parity check
Two-dimensional parity check
CRC
Question 71 0 / 1 pts
If the transmitter is transmitting an IRA character G (1110001) and using odd parity, it will append a 1 and transmit 11110001. The receiver examines character and, if the total number of 1's is odd, assumes that no error has occurred. If one bit is erroneously inverted during transmission, then the receiver will
not detect an error.
detect an error.
detect the error only if the frame length is less than 2L-I.

Unanswered	Question 72	0 / 1 pts
	The Hamming code is a method of	
	Error encapsulation	
Correct Answer	Error correction	
Correct Answer	Error detection	
		0/4
Unanswered	Question 73	0 / 1 pts
Unanswered	Which error detection method can detect a single-bit error?	0 / 1 pts
Unanswered		0 / 1 pts
	Which error detection method can detect a single-bit error?	0 / 1 pts
Correct Answer	Which error detection method can detect a single-bit error? CRC	0 / 1 pts
	Which error detection method can detect a single-bit error?	0 / 1 pts