Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, July 2020

Course: Data Communication & Computer Networks

Program: B.Tech(CSE+OSS&OS)

Course Code: CSEG2009

Semester: III

Time: 02 hrs.

Max. Marks: 100

Points: 1

1. Multiple Choice: Retransmission of packets must not be...

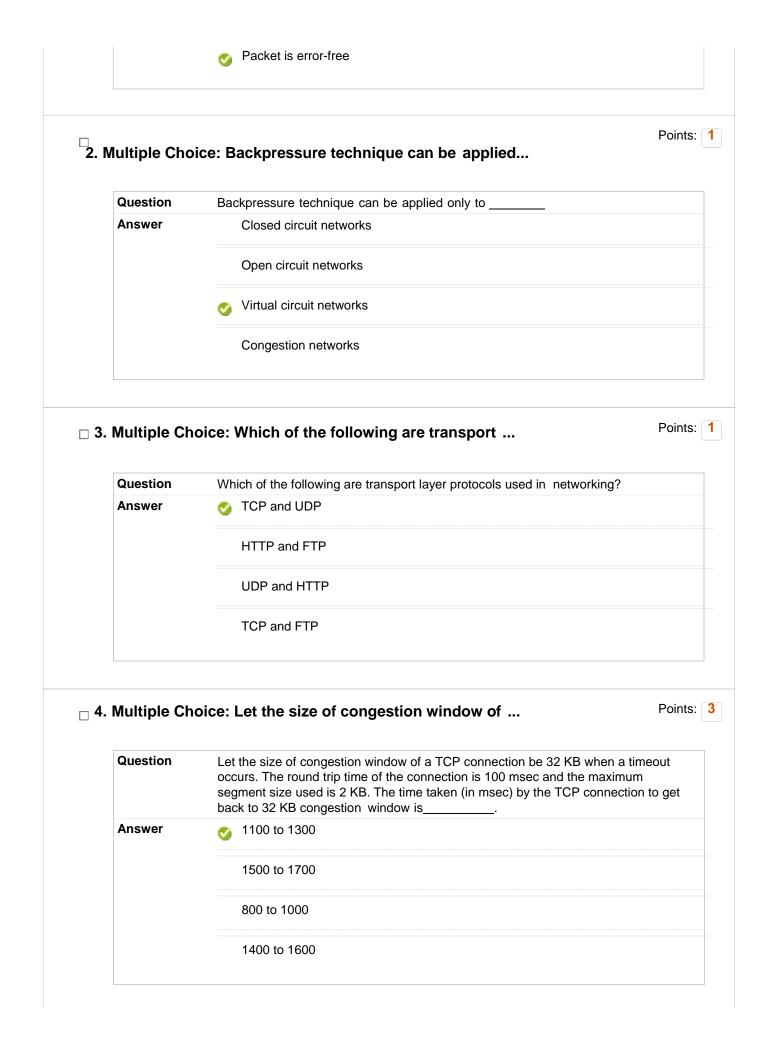
Question Retransmission of packets must not be done when _____

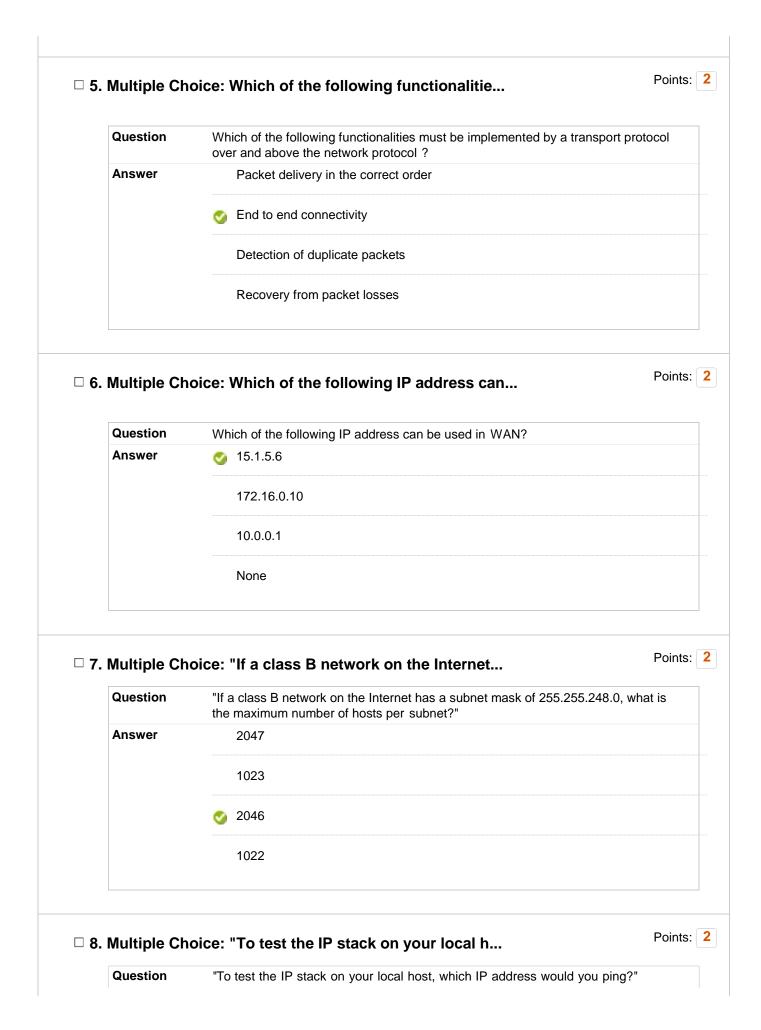
Answer Packet is lost

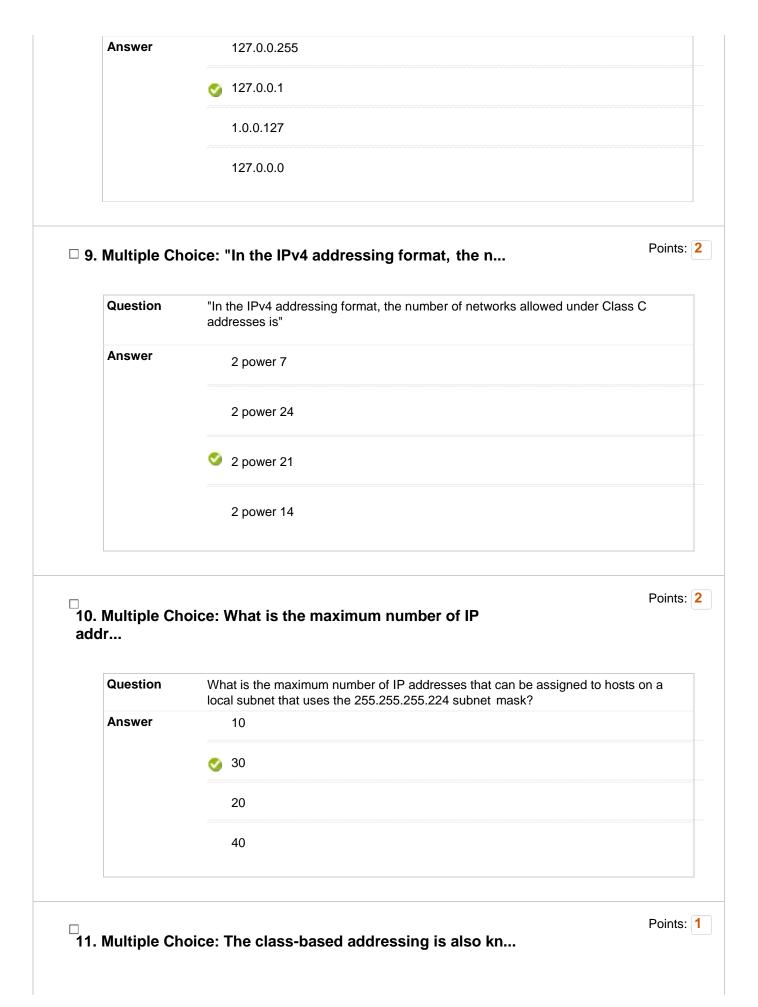
Packet is corrupted

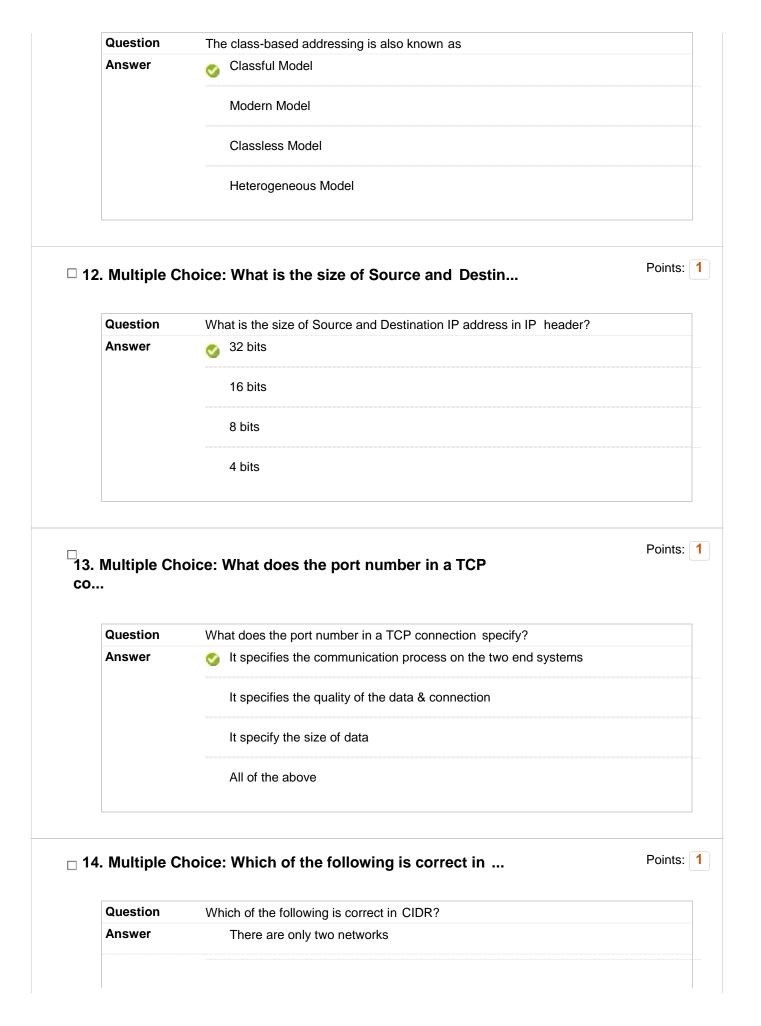
Packet is needed

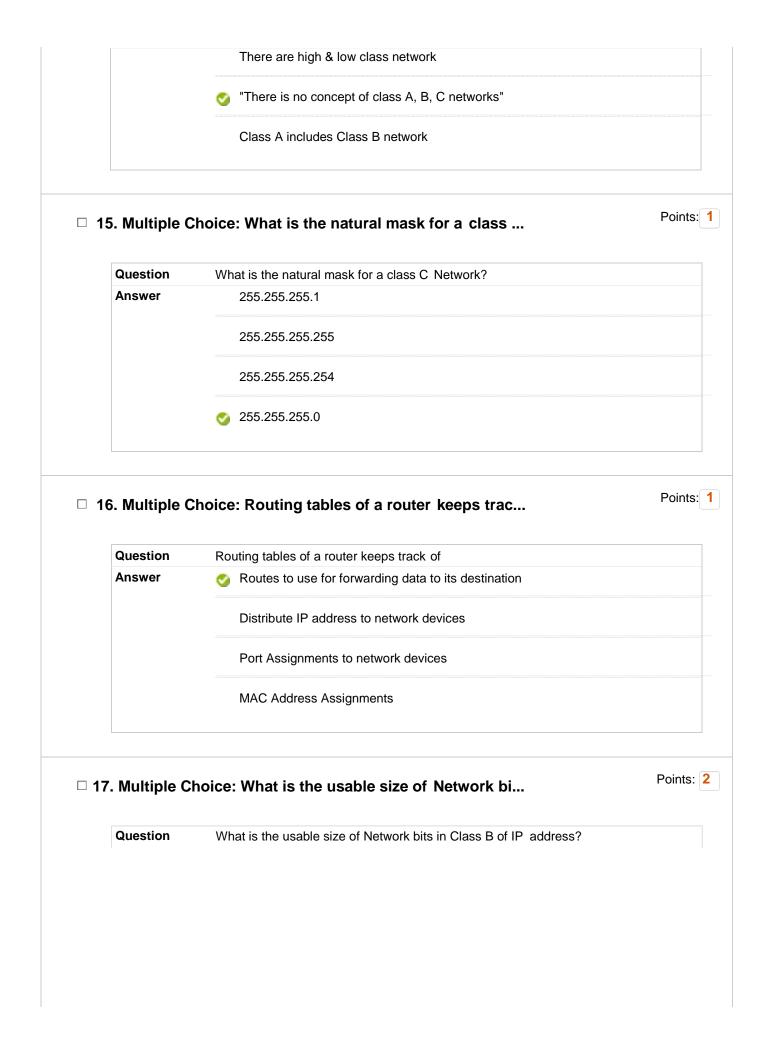
 \leftarrow OK

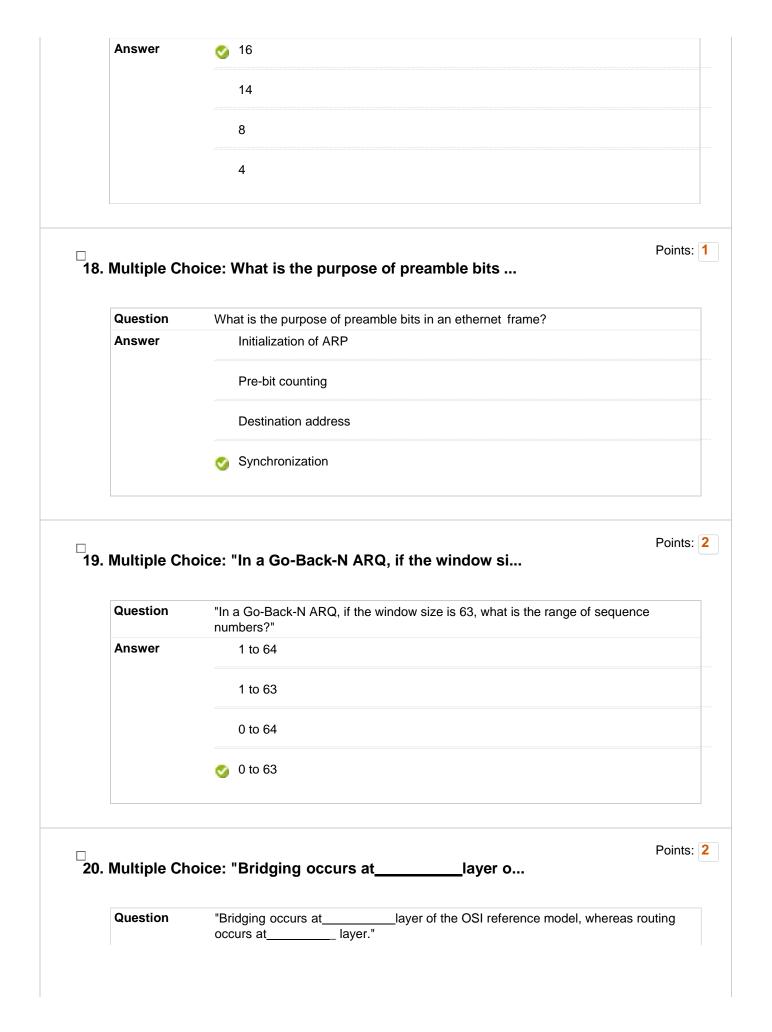


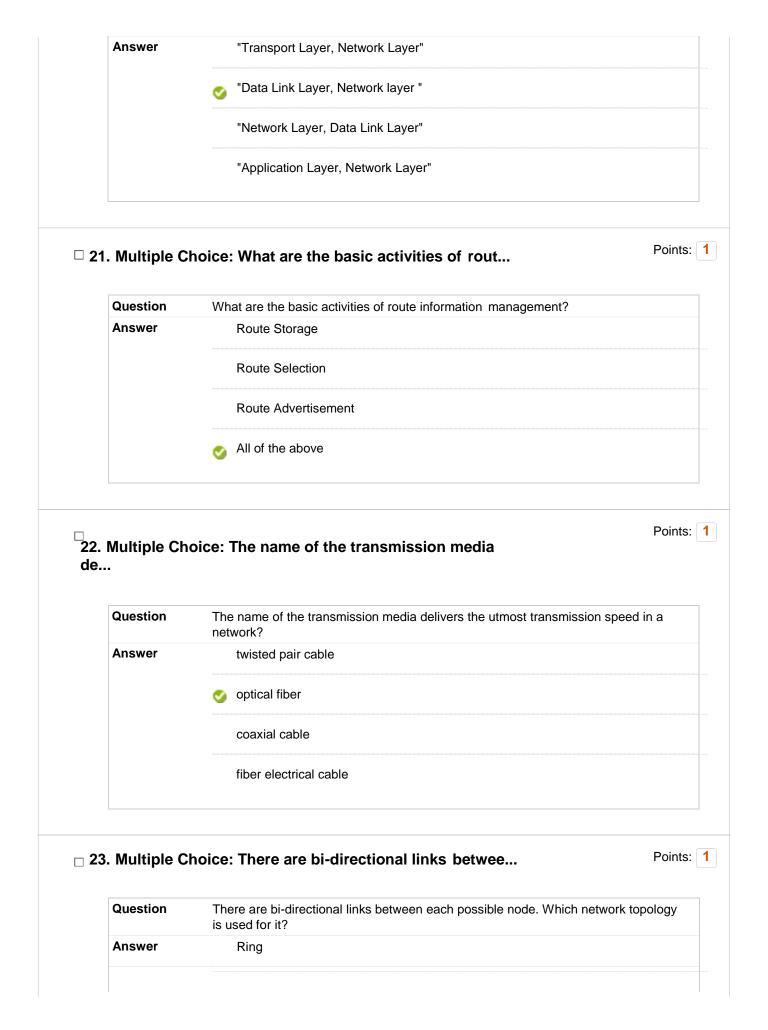


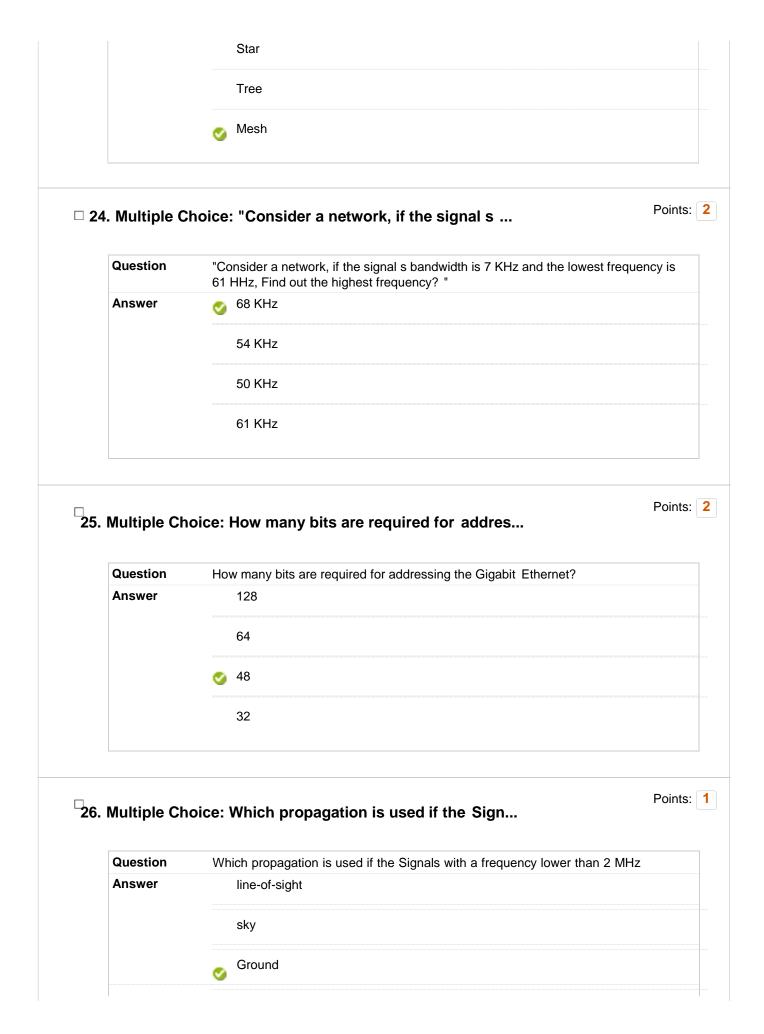


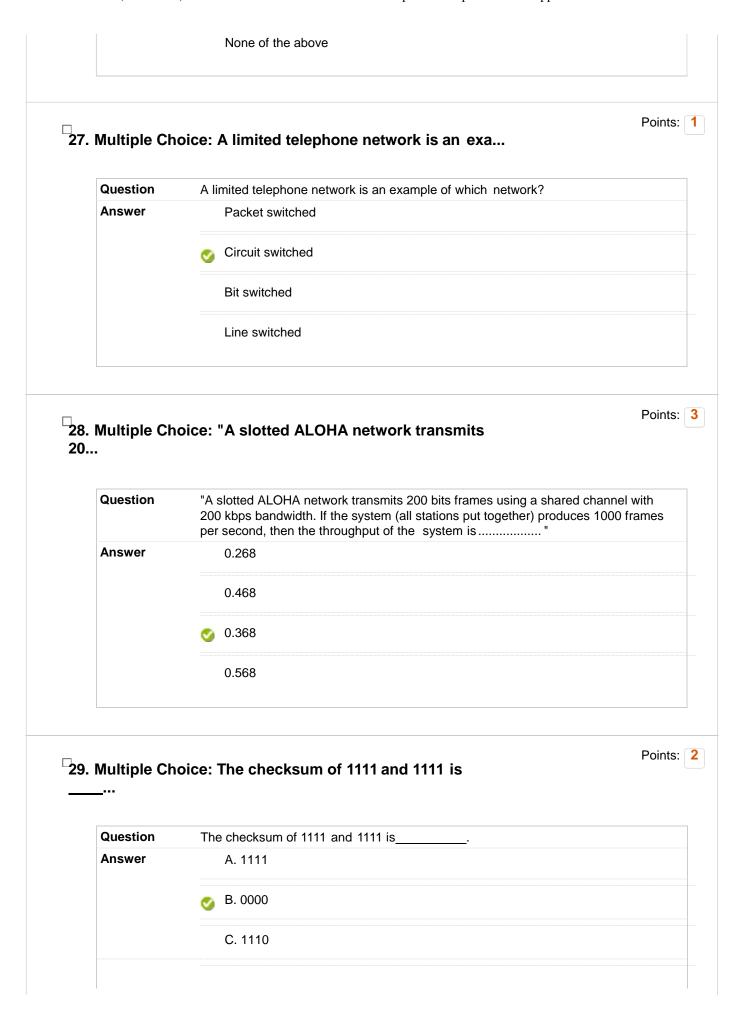


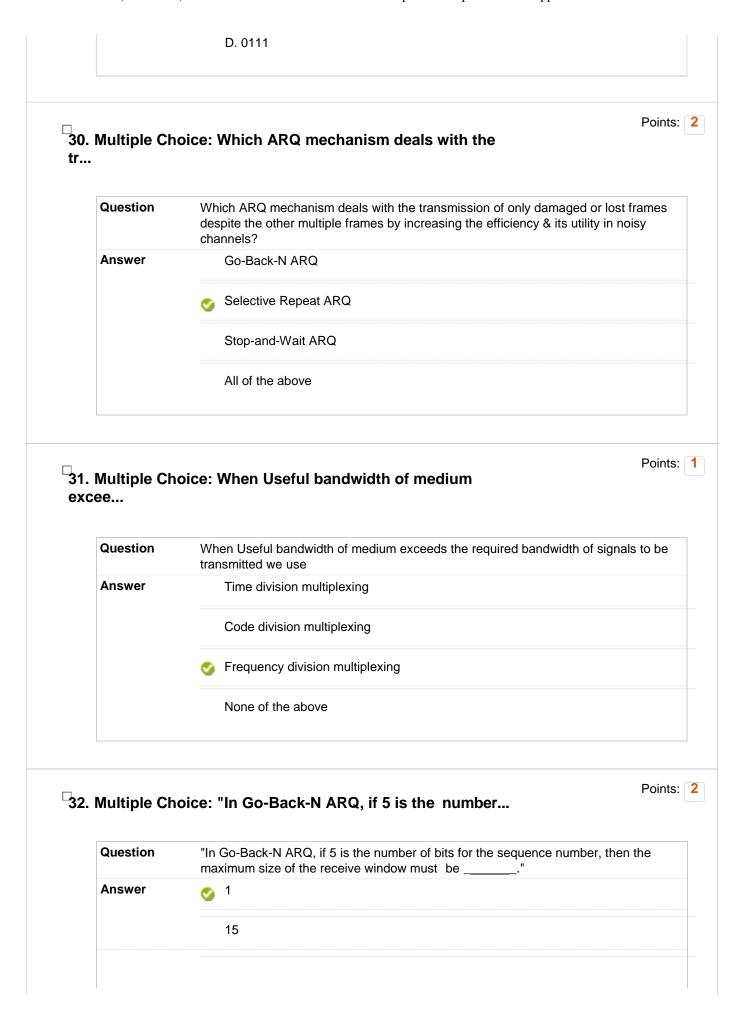




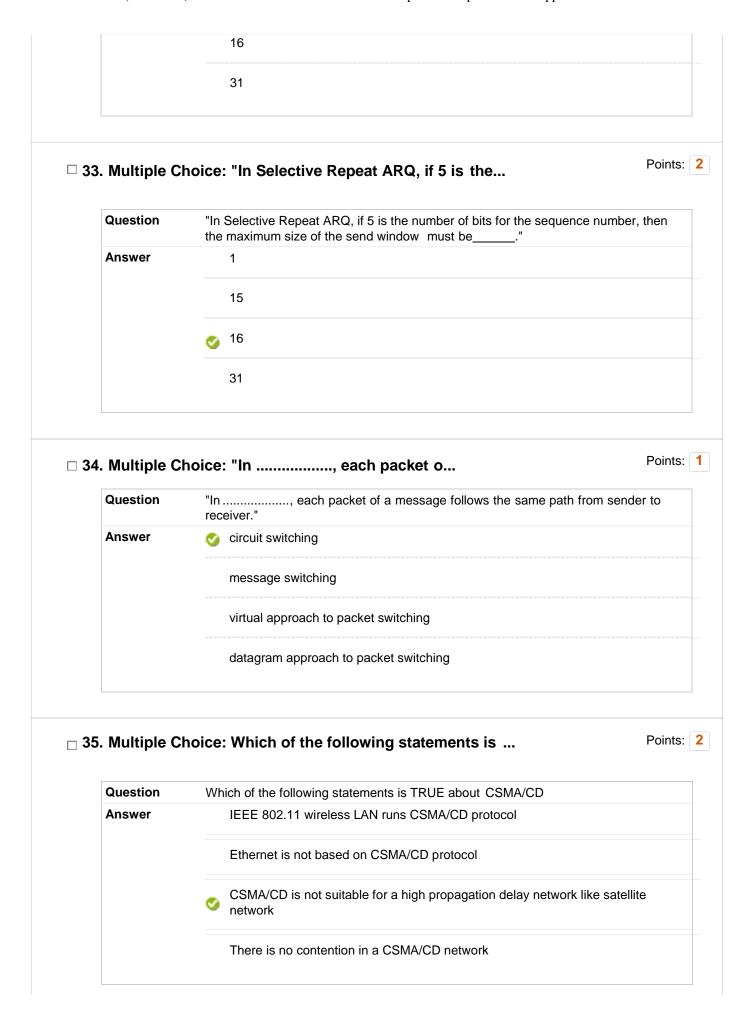


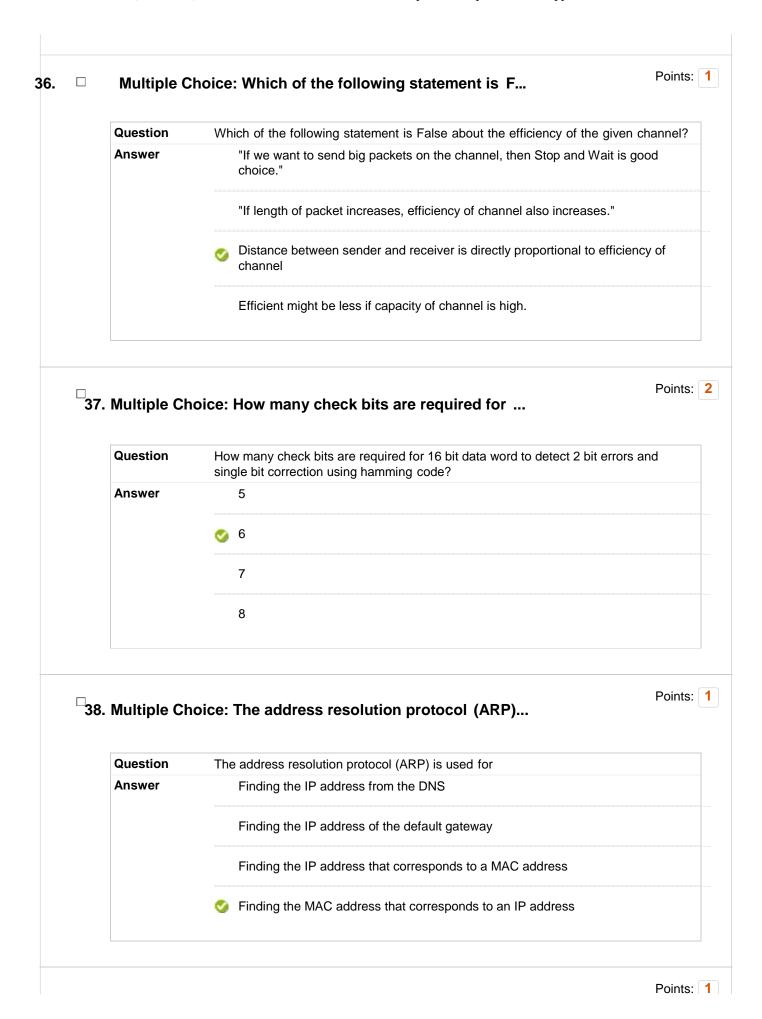






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39. Multiple Choice: "Transmission of data in Physical, Da... Question "Transmission of data in Physical, Data link, network and transport layer in the form of (respectively)." **Answer** "Frames, Packets, Bits, and Segments" " Packets, Bits, Frames, and Segments" "Packets, Frames, Segments, and Bits" "Bits, Frames, Packets, and Segments" Points: 2 □ 40. Multiple Choice: A datagram of 3000 Byte (20 byte of I... Question A datagram of 3000 Byte (20 byte of IP header + 2980 Byte IP payload) reached at router and must be forward to link with MTU of 500 Bytes. How many fragments will be generated and also calculate offset value of packet 6. Answer "8,140" "9,140" 9175 None of the above Points: 2 □ 41. Multiple Choice: "if the bandwidth of the line is 3.0 ... Question "if the bandwidth of the line is 3.0 mbps, RTT is 45 ms and packet size is 1 KB, then find the sender utilization in stop and wait protocol." Answer 8% 0.09 0.092 0.0834 Points: 3 ☐ 42. Multiple Choice: "If the packet size is 1kb and propag...

Points: 2

Points: 2

Question	"If the packet size is 1kb and propagation time is 10 ms, the channel capacity is 10^6 b/s. then find the transmission time and utilization of sender in stop and wait protocol."
Answer	0.19
	2.1
	1.5

43. Multiple Choice: Suppose a source and destination 20 k...

Question	Suppose a source and destination 20 km apart and one way delay of 200 microsec. At what data rate does the round trip delay equals the transmission delay for a 1KB packet?
Answer	19.99 mbps
	20.99 mbps
	20.89 mbps

\Box 44. Multiple Choice: A medium has propagation delay of 35

 Question
 A medium has propagation delay of 35 msec and a bit rate of 6kbps. For what range of frame size does stop and wait give an efficiency of 50%?

 Answer
 410 bits

 417 bits

 420 bits

 $\hfill \square$ 45. Multiple Choice: "In selective repeat, Consider frames...

7/22/2020, 12:09 AM

Points: 3

Question	"In selective repeat, Consider frames from 0 to 6 have been transmitted, now imagine that 0 times out, a new frame 7 is transmitted, 1 times out, 2 times out and new frame 8 is transmitted. what will be the outstanding packets in senders window?"
Answer	821706542
	5607128
	1706542

46. Multiple Choice: Consider a node with IP address 150.1...

Question	Consider a node with IP address 150.100.1.1. Suppose it wants to transmit a data to all nodes within the network. What is the source IP address and Destination IP address.
Answer	SIP- 150.100.1.1 and DIP-255.0.0.0
	SIP- 150.100.1.1 and DIP-255.255.0.0
	SIP- 150.100.1.1 and DIP-255.255.255.0
	SIP- 150.100.1.1 and DIP-255.255.255

47. Multiple Choice: Calculate the total number of bits al...

 Question
 Calculate the total number of bits allocated for NID and HID in 30.190.155.232 address?

 Answer
 NID-16 bits and HID=16 bits.

 NID-8 bits and HID=24 bits
 NID-24 bits and HID=8 bits.

 NID-24 bits and HID=0 bits.

 \Box 48. Multiple Choice: A CSMA/CD network sends packet at a

16 of 20 7/22/2020, 12:09 AM

Points: 2

Points: 3

Points: 2



Question	A CSMA/CD network sends packet at a rate of 150 Mbps over 1.5 km cable. Suppose the minimum fame size for the network is 1000 bytes. What is the signal speed in km/sec?
Answer	5 56250
	56249
	56071
	56251

49. Multiple Choice: "In Ipv4 addressing format, the numbe...

Question	"In Ipv4 addressing format, the number of network allowed under class A address is:"
Answer	2^14
	⊘ 2^7
	2^21
	2^24

50. Multiple Choice: consider a network with network id 20...

Question	consider a network with network id 201.1.2.0. Perform the subnetting in this network by dividing it into 4 parts. The network id of subnet A will be
Answer	② 201.1.2.0
	201.1.0.0
	201.1.2.128
	201.1.2.0

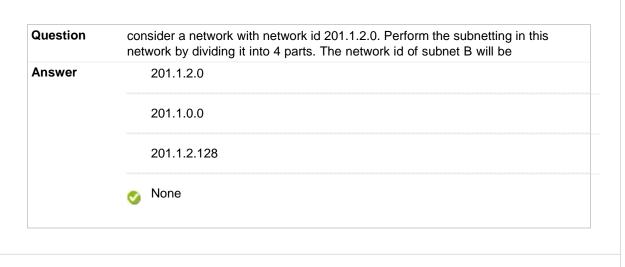
51. Multiple Choice: consider a network with network id 20...

17 of 20 7/22/2020, 12:09 AM

Points: 2

Points: 2

Points: 2



52. Multiple Choice: If the subnet mask of the network is

•••

Question	If the subnet mask of the network is 255.255.255.224. Calculate the number of hosts present in the network
Answer	5 30
	32
	28
	None

53. Multiple Choice: If the subnet mask of the network is

Points: 3

Points: 2

Points: 2

..

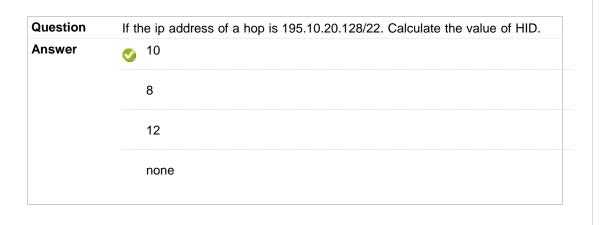
If the subnet mask of the network is 255.255.255.224. Calculate the number of subnets present in class A.
2^18
2^20
none

54. Multiple Choice: If the ip address of a hop is 195.10....

7/22/2020, 12:09 AM

Points: 3

Points: 3



55. Multiple Choice: Suppose a network has network id 196....

Question	Suppose a network has network id 196.1.2.128/26. Perform the sub netting by divide the network into two equal parts and calculate the range of both the subnets.
Answer	o 196.1.2.128 to 196.1.2.159 and 196.1.2.160 to 196.1.2.191
	196.1.2.0to 196.1.2.127and 196.1.2.128 to 196.1.2.191
	196.1.2.64 to 196.1.2.127 and 196.1.2.128 to 196.1.2.191
	none

56. Multiple Choice: "X and Y are the only stations on the...

"X and Y are the only stations on the Ethernet. Each has a steady queue of frames to send both X and Y attempt to send a frame, collide and Y wins first back off race. Now again X and Y attempt to transmit and collide. The probability that X wins the second back off is:"
0.19
⊘ 0.125
0.127
0.128

Test Canvas: End Sem Exam(6 Jul 2020) – Data ...

Select: All None Select by Type:

Delete and Regrade
Hide Question Details

Points

Update and Regrade

Hide Question Details