Name:

**Enrolment No:** 



#### UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, July 2020** 

**Course : Data Communication & Computer Networks** 

Semester : IV Program : B.Tech(CSE+OSS&OS) Time : 02 hrs. **Course Code: CSEG2009** Max. Marks: 100

Points: 1

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

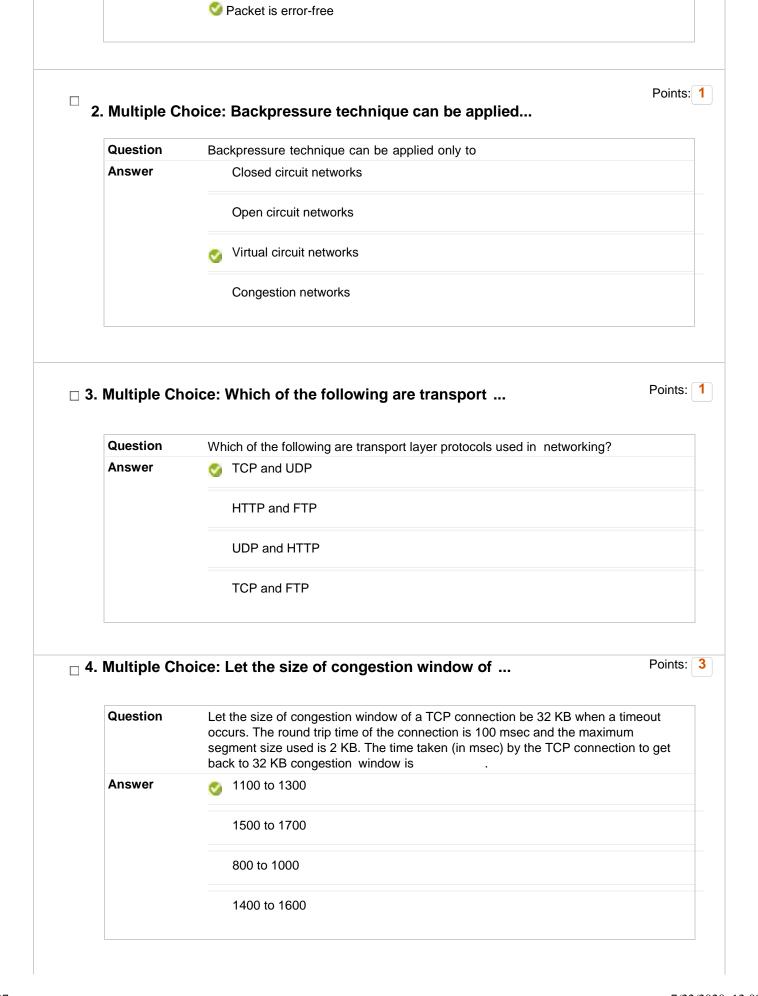
Question Retransmission of packets must not be done when \_ Answer Packet is lost

Packet is corrupted

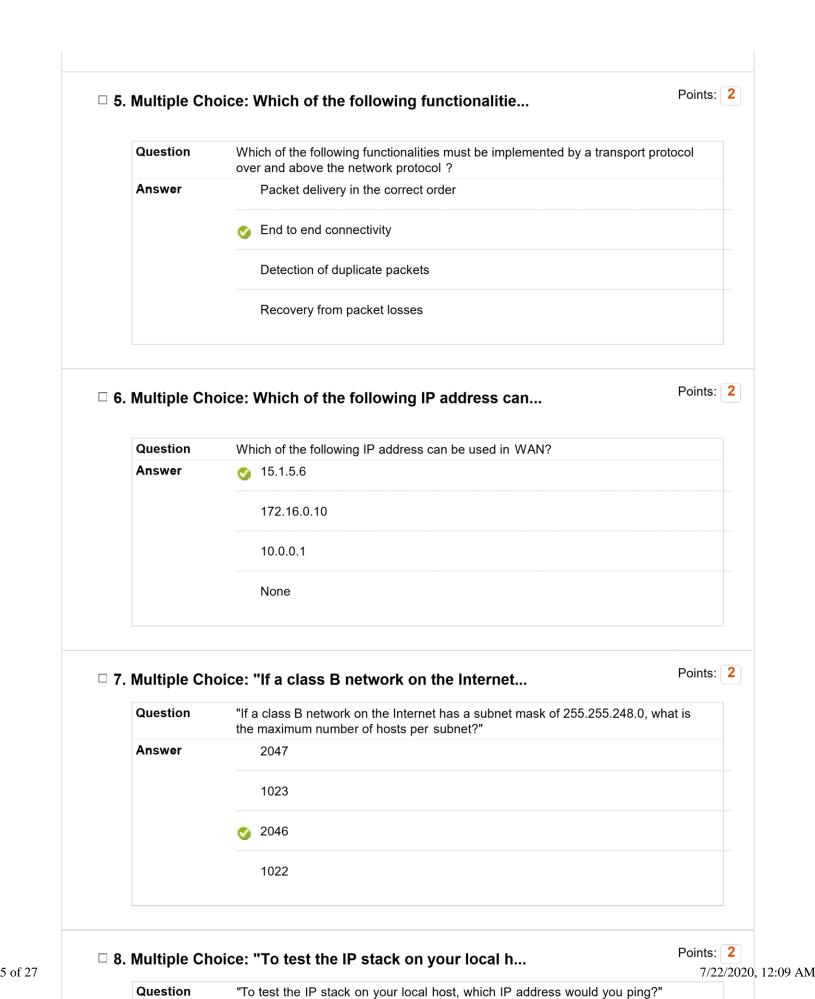
Packet is needed

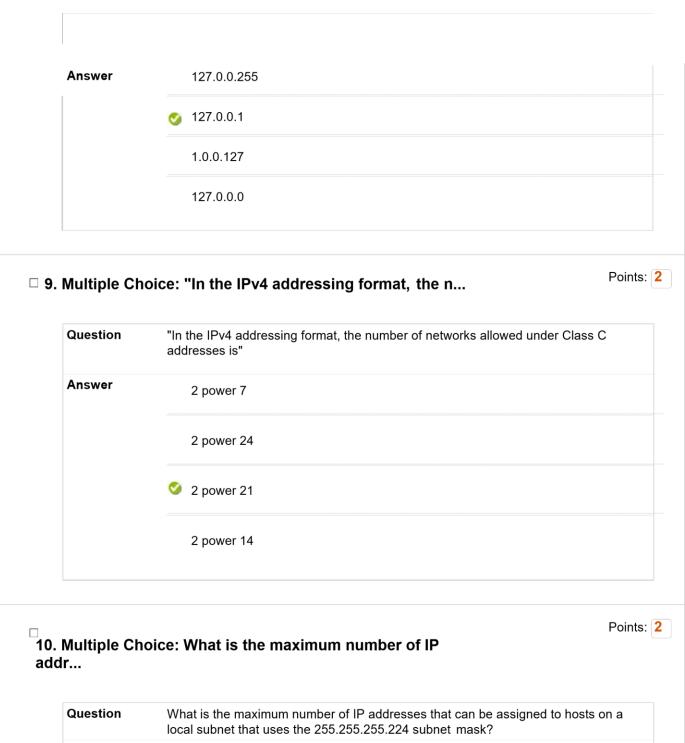
 $\leftarrow$  OK

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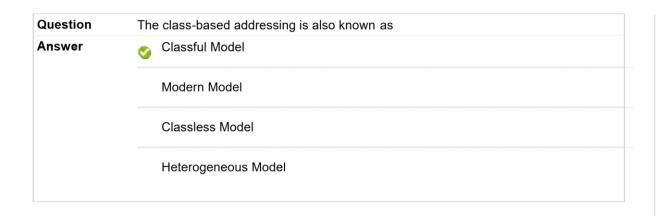


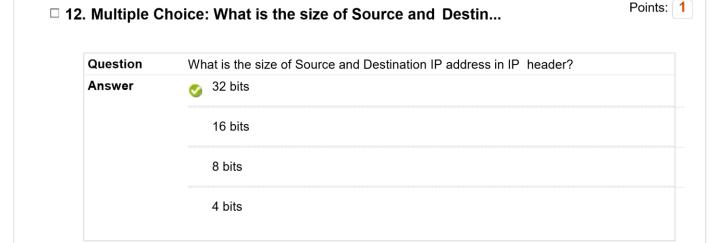
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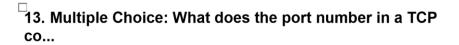


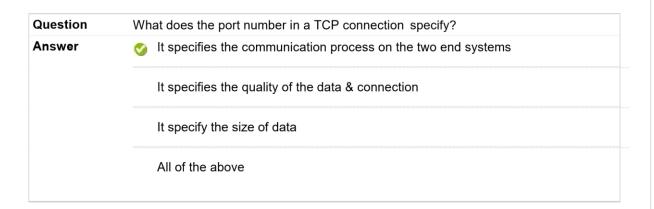


Question	What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.255.224 subnet mask?
Answer	10 <b>⊘</b> 30  20
	40









 $_{\square}$  14. Multiple Choice: Which of the following is correct in  $\,...\,$ 

 Question
 Which of the following is correct in CIDR?

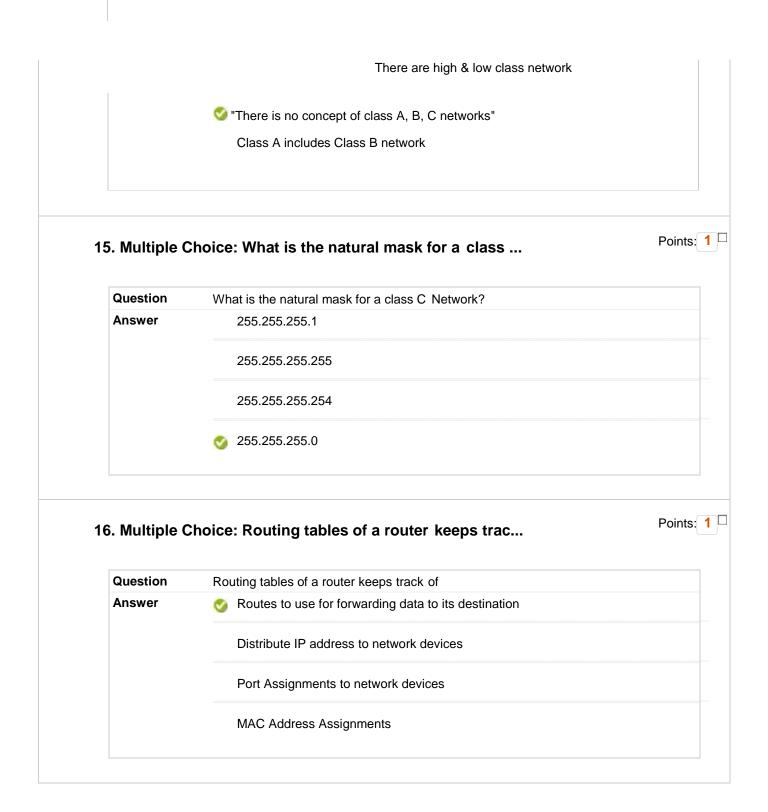
 Answer
 There are only two networks

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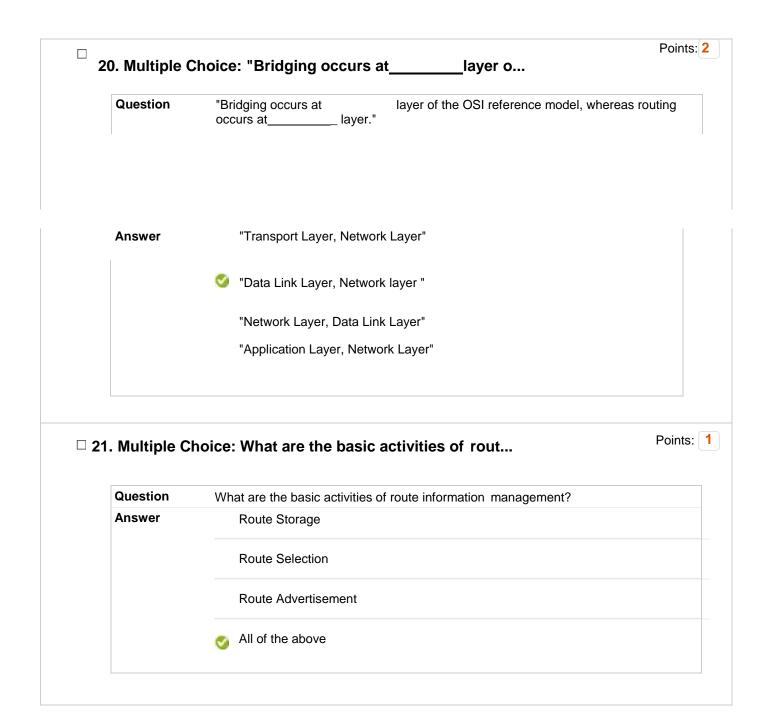
Points: 1

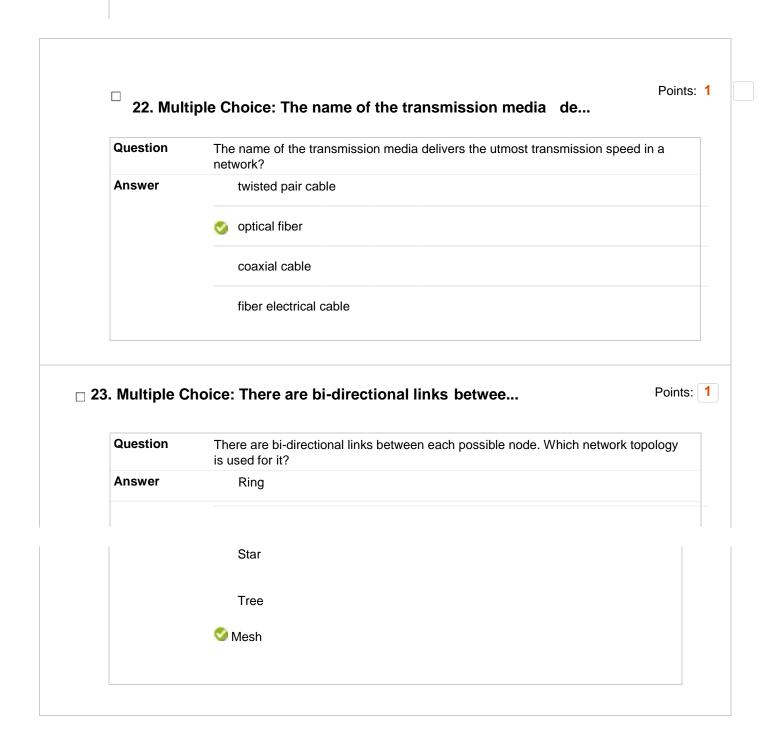
Points: 1

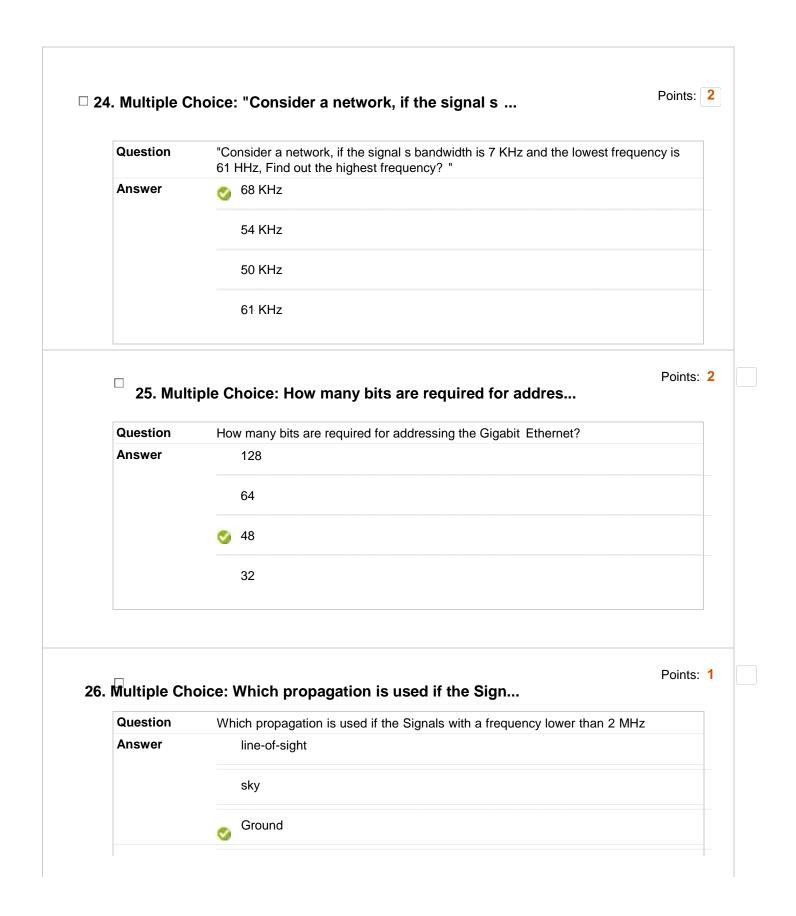


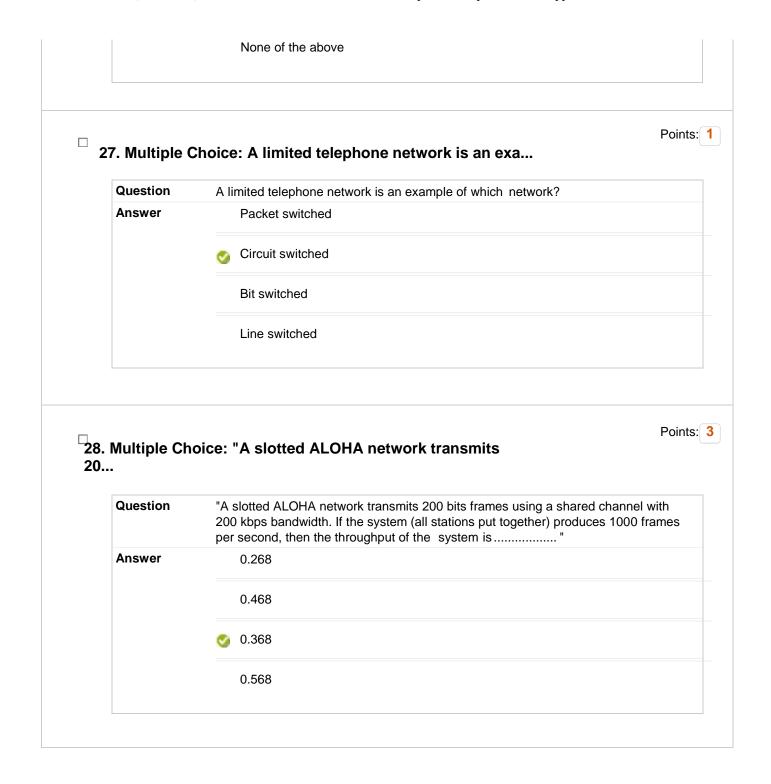
. Multiple C	hoice: What is the usable size of Network bi	Poi
Question	What is the usable size of Network bits in Class B of IP address?	

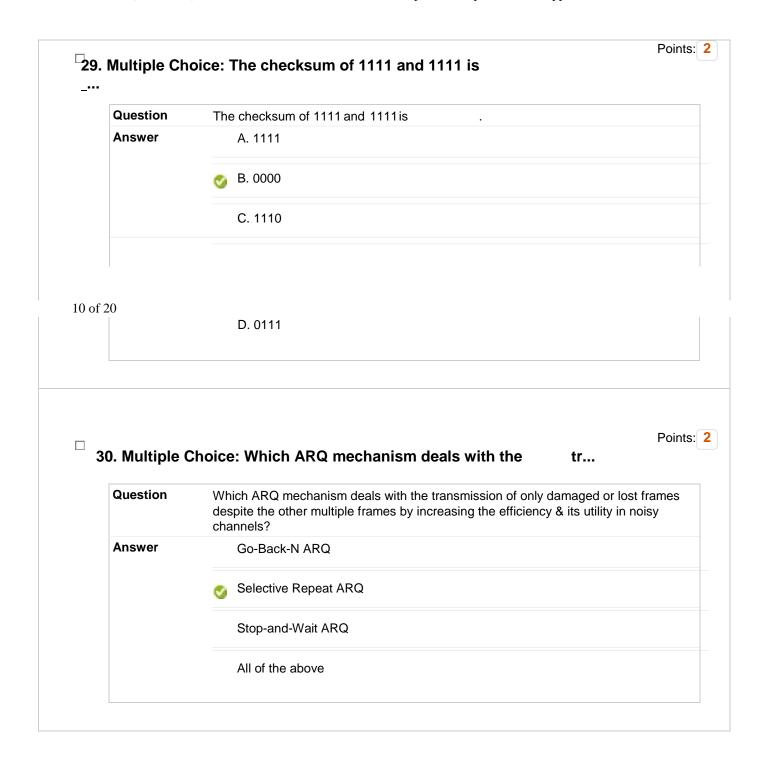
Answer	<b>ॐ</b> 16
	14
	8
	4
8. Multiple (	Choice: What is the purpose of preamble bits
Question	What is the purpose of preamble bits in an ethernet frame?
Answer	Initialization of ARP
	Pre-bit counting
	Destination address
	Synchronization
9. Multiple (	Choice: "In a Go-Back-N ARQ, if the window si
Question	"In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence numbers?"
Answer	1 to 64
	1 to 63
	0 to 64
	0 to 64 <b>⊘</b> 0 to 63

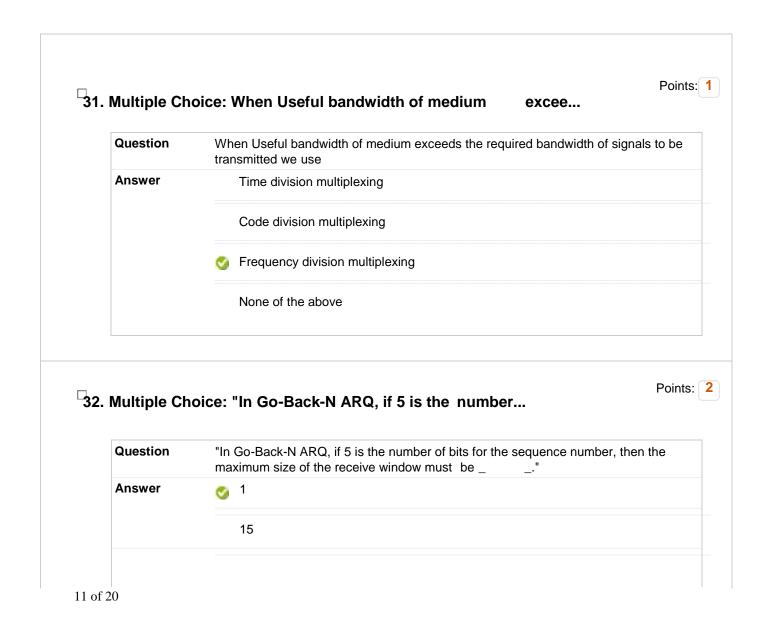












33. Multiple C	Choice: "In Selective Repeat ARQ, if 5 is the	Points:	2
Question	"In Selective Repeat ARQ, if 5 is the number of bits for the sequence nuthe maximum size of the send window must be"	ımber, then	
Answer	1		
	15		
	31		
Question	Choice: "In, each packet o  "In, each packet of a message follows the same path from receiver."	Points: sender to	1
-	"In, each packet of a message follows the same path from		1
Question	"In, each packet of a message follows the same path from receiver."  circuit switching		1
Question	"In, each packet of a message follows the same path from receiver."  circuit switching  message switching		1
Question	"In, each packet of a message follows the same path from receiver."  circuit switching  message switching  virtual approach to packet switching		
Question	"In, each packet of a message follows the same path from receiver."  circuit switching  message switching  virtual approach to packet switching  datagram approach to packet switching	sender to	



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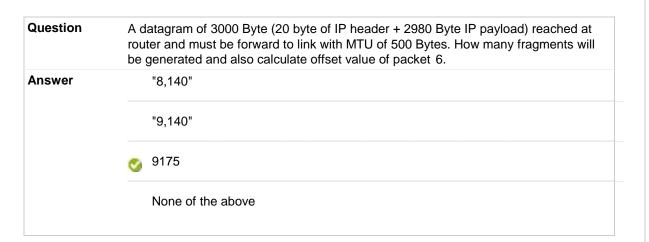
Points: 1

Points: 2

### 39. Multiple Choice: "Transmission of data in Physical, Da...

"Transmission of data in Physical, Data link, network and transport layer in the form of (respectively)."
"Frames, Packets, Bits, and Segments"
" Packets, Bits, Frames, and Segments"
"Packets, Frames, Segments, and Bits"
Bits, Frames, Packets, and Segments"

#### ☐ 40. Multiple Choice: A datagram of 3000 Byte (20 byte of I...

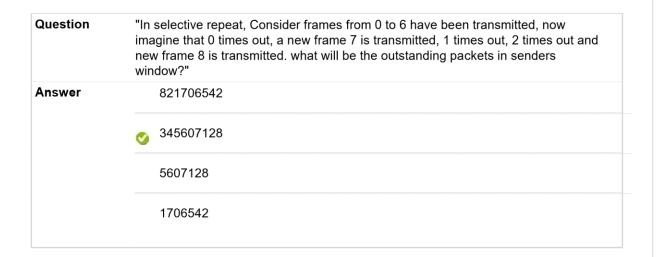


### $\hfill\Box$ 41. Multiple Choice: "if the bandwidth of the line is 3.0 ...

"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."
8%
0.09
0.092
<b>O.0834</b>

	hoice: "If the packet size is 1kb and propag Poi
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
	<b>◎</b> 0.29
	2.1
	1.5
3. Multiple (	Po Choice: Suppose a source and destination 20 k
3. Multiple (	Choice: Suppose a source and destination 20 k  Suppose a source and destination 20 km apart and one way delay of 200 microsec
-	Suppose a source and destination 20 km apart and one way delay of 200 microsed At what data rate does the round trip delay equals the transmission delay for a 1KE
Question	Choice: Suppose a source and destination 20 k  Suppose a source and destination 20 km apart and one way delay of 200 microsed At what data rate does the round trip delay equals the transmission delay for a 1KE packet?
Question	Choice: Suppose a source and destination 20 k  Suppose a source and destination 20 km apart and one way delay of 200 microsed At what data rate does the round trip delay equals the transmission delay for a 1KE packet?  19.99 mbps

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
	419 bits
	420 bits



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

QuestionConsider 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.AnswerSIP- 150.100.1.1 and DIP-255.0.0.0SIP- 150.100.1.1 and DIP-255.255.0.0SIP- 150.100.1.1 and DIP-255.255.255.255.0

### 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.

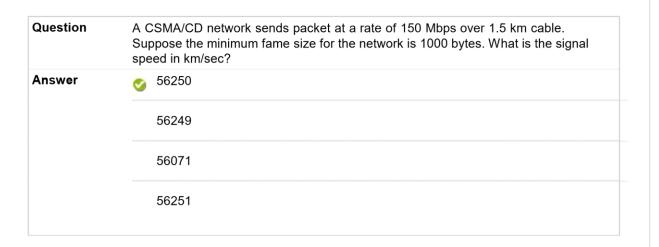
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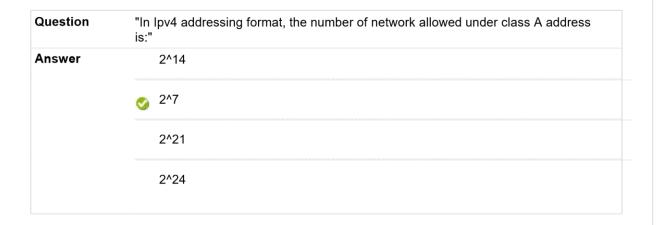
Points: 2

Points: 2

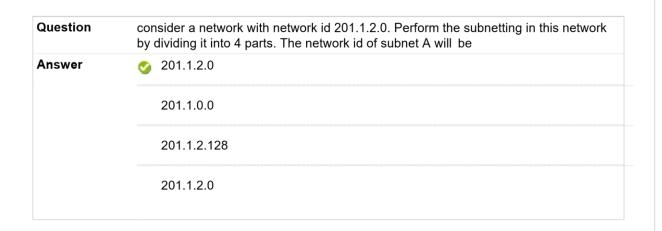
r...



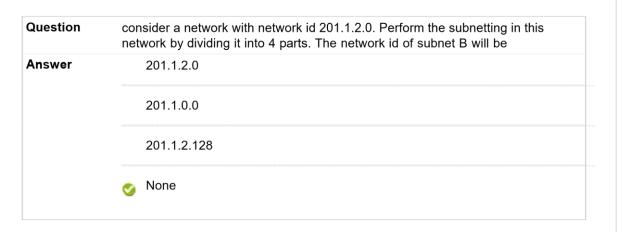
### 49. Multiple Choice: "In Ipv4 addressing format, the numbe...



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

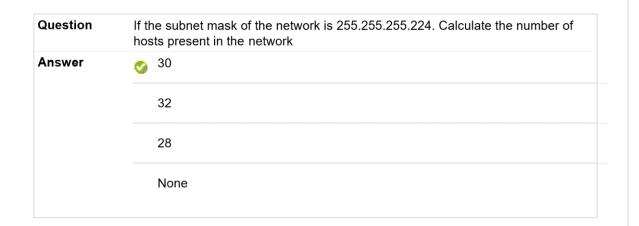


Points: 3



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

...

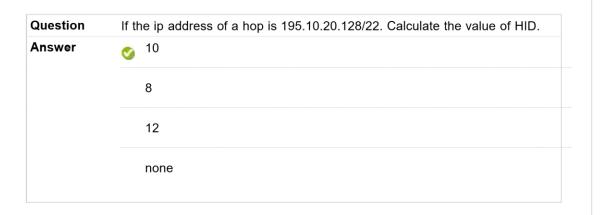


### 53. Multiple Choice: If the subnet mask of the network is

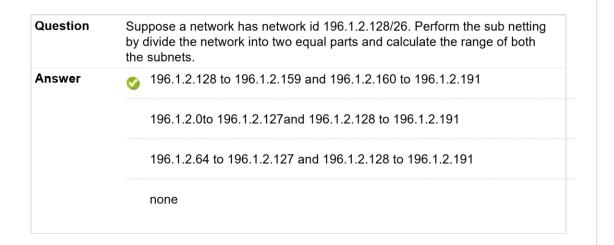
•••

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

Points: 3



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



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

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Test Canvas: End Sem Exam(6 Jul 2020) – Data ... 20 of 20

https://learn.upes.ac.in/webapps/assessment/do/content/assessment?acti...