	TCP/IP Networking 2017 Test 3
	Grading:
	For each question, exactly one of the four proposed
	answers is correct. If the good answer and only the good answer box is crossed $\Rightarrow +1$ point. If one bad
	answer box is crossed $\rightarrow +1$ point. If one bad answer box is crossed and no other box is crossed
	$\Rightarrow -\frac{1}{3} = -0.333$ point. If 0 or more than 1 answer
	box is crossed $\Rightarrow +0$ point. \leftarrow Please encode your SCIPER number here and
	write your full name in the box below. \downarrow
	Name, First Name:
sliding window protocol with win is no packet loss, there is no inter-	B over a dedicated channel of capacity c , using a adow size W . The round trip time is RTT . There referring traffic, ACKs are sent on a separate channel e overhead due to packet headers. The sending rate
$\prod \min\left(c, \frac{RTT}{W}\right)$	
,	(1011)
Question 2 A and B use TC At time t_1 , which bytes may A s	P. The maximum segment size is 1'000 bytes. end?
301:501	t ₀ — A Seq =1:101
None of these.	Seq =101:201
301:1301	Seq = 201:301 Ack = 101, win = 200
301:401	t_1 ?
9 11	dication sends one short IP packet every 10 msec, n one packet is lost, can head-of-the line blocking
Yes with TCP, no with UD	OP. With both.
Yes with UDP, no with TC	CP. No.
Question 4 Say what is true.	
 UDP is the same with IPv- TCP is the same with IPv- 	
None 1 and	not 2. 2 and not 1. Both.

		•	1, 2, 00		
transfer, a	s long as the local por	t is the same for all	the same socket for data connections. stablishment and for data		
2 and not	1. Both.	None None	\square 1 and not 2.		
socket call is re	QL is an application su	ach that, after a cord(). The connection	rver that has syn-cookies nect(), the client's next n finalizing ACK sent by		
or until a 2. The TCP	timeout occurs. server retransmits the	SYN-ACK using or	isa's device waits forever ne of its implemented loss rice to retransmit the lost		
Both.	1 and not 2	2 and not	1. None		
Question 7 A UDP server application receives multiple messages over one single non-connected UDP socket and receives no other traffic from the network. We do a packet capture at this server of all UDP traffic that is received by this application. Say what is true.					
	e UDP port is the samnation UDP port is the	-	S.		
1 and not	2. 2 and not 1	. None	Both.		
Question 8 A version of TCP implements loss detection by timeout and fast retransmit, and no other loss detection mechanism. The last packet of a data transfer is lost. By which mechanism can the loss be detected?					
By fast re	transmit only.		timeout or by fast redepending on the case.		
By timeou	it only.	This loss	will not be detected.		
Question 9 Application A on one host sends data to application B on some other host using TCP. TCP at A sends 5 segments of 100 bytes each; the second segment is lost and not yet re-transmitted, the other segments are received by TCP at B . How many bytes can B read from the socket ?					
<u> </u>	<u> </u>	<u> </u>	<u> </u>		

+1	/3/5	58+
• т	<i>,</i> ט, י	יטכ

Question 10	The goal of flow control in TCP is to:	
-	burces from congesting network buffers, he source from congesting the receiver's buffer.	
1 and not	2. 2 and not 1. None	Both.