	TCP/IP N	Networking 2016 Test 5
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$\square 2 \ \square 2$	~ "	
3       3       3       3       3         4       4       4       4       4       4         5       5       5       5       5       5         6       6       6       6       6       6         7       7       7       7       7       7	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 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.  — Please encode your SCIPER number here and write	
	your full name in the box below.	
	Name, First Name:	
Question 1 "Redistribution of BO	GP into the IGP" means:	
·	epeated inside the internal BGP	mesh as long as they are
All routes leant by E-BGP are allowed by import and export p	repeated inside the internal BGP olicies.	mesh as long as they are
All routes leant by I-BGP are a allowed by import and export p	repeated inside the internal BGP olicies.	mesh as long as they are
All network prefixes learnt by I the autonomous system.	BGP are propagated by the interi	or routing protocol inside
Question 2 A TCP-friendly applic	eation is	
A UDP application that sends a	exploits the congestion control feature a rate similar to what it would observe the streaming oriented natural riority to TCP flows.	otain if it were using TCP.
Question 3 Say which of the follow	ving statements are true:	
<ol> <li>when a BGP router R receives this route as best route</li> <li>I-BGP peers must be on-link</li> </ol>	a route from a BGP peer $R'$ , $R$ k	nows that $R'$ has selected
	ant 1	Noithan 1 non 2
	not 1. $\square$ 1 and 2.	Neither 1 nor 2.
<ul> <li>Question 4 Say what is true:</li> <li>1. The goal of Explicit Congestion I in routers, when combined with</li> <li>2. When a router implements Ran</li> </ul>	TCP congestion control.	
when buffers are not full.	, (- )	1
Neither 1 nor 2. Both 1	and 2. $\square$ 1 and not 2.	$\square$ 2 and not 1.

route. The import and export policies allow the retrue $1.\ R\ {\rm can\ export\ the\ route\ to\ any\ I-BGP\ peer}$	, , , , , , , , , , , , , , , , , , ,		
2. R can export the route to any E-BGP peer i			
	$\square$ Neither 1 nor 2. $\square$ 2 and not 1.		
<ul> <li>Question 6 Say which of the following statements are true:</li> <li>1. a BGP router periodically sends all its best routes to its BGP neighbours as long as the export policy allows</li> <li>2. a BGP router periodically sends all the routes it knows of to its BGP neighbours as long as the import and export policies allow</li> </ul>			
$\square$ 2 and not 1. $\square$ 1 and 2.	$\square$ Neither 1 nor 2 $\square$ 1 and not 2.		
Question 7 When a TCP source detects by timeout that a packet is lost			
it goes into slow start.	it goes into fast recovery.		
it goes into congestion avoidance.	it divides the congestion window by 2.		
import policy.	owing updates, which are both accepted by the  66 555 444 NEXT-HOP = 1.2.3.4		
DEST = $9.9.9/24$ AS-PATH= 333 222 111 999 NEXT-HOP = $4.3.2.1$ R has no other route to theses destinations. Which routes will the decision process select?			
The first and not Both. the second.	The second and None. not the first.		
Question 9 Which of the formulas below gives the throughput $\theta$ of a non-ECN long-lived TCP connection with round trip time $T$ and constant segment size $L$ that experiences loss probability $q$ (where $C$ is some numerical constant) ?			
Question 10 For long lived TCP connections, the rate they obtain is according to			
<ul> <li>a concave utility function that has a bias in favour of connections with small RTT.</li> <li>a utility function that expresses maxmin fairness but with a bias in favour of connections with small RTT.</li> </ul>	<ul> <li>a utility function that expresses maxmin fairness but with a bias in favour of connections with large RTT.</li> <li>a concave utility function that has a bias in favour of connections with large RTT.</li> </ul>		