

## **Computer Networks II**

Test 1 (extra)

## Escuela Superior de Informática



This test consists of 8 question totalling 15 points. The maximum duration is 60 minutes. Two wrong answers substract a point. Only an answer if correct if otherwise not stated. Calculator use is forbidden. Write legibly and similar to the size of the printed text using only the reserved space.

Apo	ellidos: SOLUCIÓN	Nombre:	Grupo:
1.	(2p) Explain the main difference between a switch and The router main purpose is to interconnect different (broadcast domains). The switch performs frame sw	(in respect to addressing and pe	
2.	network.  (2p) A packet switching network may increase the jit		
	<ul> <li>a) At the router queues.</li> <li>b) At the switching tables in switches.</li> </ul>	<ul><li>□ c) At the routing tab</li><li>□ d) Packet switching</li></ul>	les in routers. networks do not suffer of jitter.
3.	(2p) In what context a neighbor discovery mechanism is often required?		
	<ul><li>a) WAN with serial links.</li><li>b) LAN with shared medium.</li></ul>		or TCP protocol is used.
4.	<ul><li>(2p) What characterizes a connectionless service?</li><li>a) The sender does not verify that the recipient is</li></ul>	there before transmitting.	
	<ul> <li>b) Communication begins after a negotiation pro</li> <li>c) Usually the reliable protocols offer it.</li> </ul>	cess between source and destin	ation.
☐ d) TCP offer that service.			
5.	(2p) Which of the following code fragments is the mo	est similar to a basic web client	?
1 2 3 4	<pre>// A) s = socket(AF_INET, SOCK_STREAM) s.sendto('GET /index.html HTTP/1.0\n\n', ('www.examps.recvfrom(32)</pre>	ple.net', 80))	
1 2 3 4	<pre>// B) s = socket(AF_INET, SOCK_DGRAM) s.connect('http://www.google.com') s.recvfrom('GET /index.html HTTP/1.0\n\n', 80)</pre>		
1 2 3 4 5	<pre>// C) s = socket() s.connect(('1.2.3.4', 2000)) s.send('GET / HTTP/1.0\n\n') s.recv(32)</pre>		
	□ a) □ b)	<b>e</b> )	
6.	(2p) What is the return value of method socket.re	cvfrom()?	
	a) It returns nothing unless disconnection happen		
	<b>b</b> ) The entire IP packet and its size in bytes.		
	<ul> <li>c) The total number of bytes that have been read.</li> <li>d) The payload and the endpoint of the sender (a)</li> </ul>		

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7.	(1p) With Python, if invoking a socket in blocking mode, the return value of the recv () method returns an empty sequence, what it means?		
	<ul> <li>a) The sender sent nothing.</li> <li>b) The other peer closed the connection.</li> </ul>	<ul> <li>c) The retransmission timer expired.</li> <li>d) The local process was interrupted by a signal.</li> </ul>	
8.	8. (2p) What protocol is typically used to encapsulate the IP traffic on WAN connections provided by ISPs for hon users?		
	a) PPP	☐ c) HTTP	
	h) TCD	☐ A) VDN	

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