

Computer Networks II

Test 1

Escuela Superior de Informática

1101 17	
calificación	

This test consists of 15 question totalling 15 points. The maximum duration is 25 minutes. Three wrong answers substract a point. Only an answer if correct if otherwise not stated. Calculator use is forbidden. Write legibly using only the reserved space.

pellidos	s: SOLUCIÓN	Nombre:	Grupo:
playi	An user open a youtube video, he may notice to sing and after almost 2 minutes video stops and conis behavior?		
	a) It is a trading tactic youtube.		
	b) Insufficient bandwidth.		
	c) The connection is high latency.		
	d) The connection has a high jitter or there has	s been a drop in bandwidth.	
	In a multiplayer online shooter game, a player by teleport some meters every few seconds. Wh		
	a) His video card is configured with a too high	resolution.	
	b) One or more players have a too low latency.		
	c) One or more players have an Internet high la	atency connection.	
	d) The game is using a transport protocol base	d on datagrams instead of one ba	sed on flows.
3. (1p)	Select the TRUE statement regarding broadcas	st links:	
	a) It uses a set of intermediate devices.		
	b) Usually they provide various addressing mo	odes.	
	c) It uses a 'store-and-forward' system.		
	d) The IP protocol is a clear example of use of	the broadcast links.	
4. (1p)	Select the FALSE statement in relation to the f	flow control mechanism:	
	a) It prevents network congestion.		
	b) It can be implemented at various layers of the	he TCP/IP stack.	
	c) It occurs when there is an important differen	nce between production and recep	otion of data in a stream.
	d) It prevents the saturation of a slow receiver.		
	What is the main cause of congestion in a data	•	
ent	s redes de datagramas proporcionan un servicio tregar cualquier nuevo paquete que entre en la r capacidad de la red, es fácil que aparezca conge	ed. Como no se evalúa si ese nue	vo paquete (o flujo) sobrepasará
6. (1p)	In a server using UDP port 3000, you want to t sentence you should run?		
	a) sock.bind(('0.0.0.0', 3000))	c) sock.bind(('	127.0.0.1', 3000))
	b) sock.bind((", 3000))	d) sock.local_	

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14. (1p) CANCELED

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7. (1p) Given the next execution of a server written in Python, mark the correct statement:

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~/upper# ./TCP_server.py 1000 Fraceback (most recent call last): File "./TCP_server.py", line 36, sock.bind((ip, int(sys.argv[1])))
OSError: [Errno 98] Address already in use a) The variable ip contains an incorrect IP. **b**) A client has connected using the port 1000. c) Some process has already bound the port 1000. **d**) Port 1000 is reserved and use it requires root permissions. 8. (1p) A customer has sent 200 bytes calling the sendall () method of a TCP socket. The server invokes the recv() method in a socket in the same connection. The received message on the server has a length of 150 bytes. Which is the reason? a) Being a connectionless there is no guarantee of delivery or order. **b**) It's a normal situation, since it is a stream oriented communication. c) The sent message was divided into segments and one of them is lost. d) The situation can never occur.. 9. (1p) What is the return value of the method recvfrom()? what is the reason to provide that information each time it is invoked? El método recyfrom se utiliza con sockets de tipo datagrama. Al no existir conexión pueden llegar mensajes desde distintos orígenes. Para poder identificar dicho origen, el método devuelve su IP y puerto, además del mensaje propiamente dicho. 10. (1p) In a TCP server, the listen() system call parameter defines... **a**) Nothing, because listen() is only used in UDP servers. **b**) Nothing, because listen () is only used in TCP clients. c) The maximum period of time, in seconds, that the client will wait to be served before arising a failure. **d**) The queue size of the waiting clients. 11. (1p) Although there are many different WAN technologies, what of the kinds below is the most common? **a**) point to point links b) broadcast links c) stop and wait d) microwaves 12. (1p) In a lab, two routers are to be interconnected emulating a WAN network, without using neither a DSU/CSU nor a modem. What type of V.35 should be used? a) DTE-DTE c) DTE-DCE □ b) DCE-DCE d) DCE-DTE-DCE 13. (1p) Explain some of the reasons why ATM uses so small PDUs. Una de las razones más importantes es que permite hacer una multiplexación homogénea de múltiples flujos, lo que lo hace muy adecuado cuando se necesita una tasa constantes.

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15.	. (1p) In a large distance SONET path, with an ADM (add-drop) there are several interspersed R devices. Select the
	right choice:
	a) The R device amplifies and corrects errors.
	b) The R device amplifies and regenerates the signal.
	The R device operates on the data link layer and corrects errors.
	☐ d) The R device binds two line sections and corrects errors.

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