

Computer Networks II

Curso 16/17 :: Test 1

Escuela Superior de Informática

2020/03/04 11:2	25:57		

This exam consists of 14 question totalling 20 points. The maximum duration is 80 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 area.

Apellidos:	Nombre:	Grupo:
 [1p] What happens when a UDP client invokes se a) The connection ends in error. b) A ServerNotFound exception is raised. 	endto() to an incorrect address? c) Request forwarding. d) Nothing.	
 2. [1p] With Python, if invoking a socket in blockin sequence, what it means? a) The sender sent nothing. b) The other peer closed the connection. 	ng mode, the return value of the recv() mode c) The retransmission timer d) The local process was into	expired.
 3. [1p] A client has sent 200 bytes calling the sent method in a socket in the same connection. The recreason? a) Being a connectionless there is no guarant b) It's a normal situation, since it is a streamt c) The sent message was divided into segment d) The situation can never occur. 	ceived message on the server has a length of ntee of delivery or order. In oriented communication.	
 4. [1p] Select the FALSE statement in relation to the a) It prevents network congestion. b) It can be implemented at various layers o c) It occurs when there is an important difference of the prevents the saturation of a slow receiver. 	of the TCP/IP stack. erence between production and reception of c	data in a stream.
 5. [1p] What TCP header fields are used for flow cor □ a) URG pointer. □ b) Offset. 	ntrol?	d) Window.
 6. [1p] In what traffic profile the AVERAGE DATA I a) Constant bitrate b) Variable bitrate 	RATE is equal to the PEAK DATA RATE? c) Average bitrate d) Burst	
 7. [1p] What the router do when a packet arrives and a) That packet package is dropped b) It flushs the output queue 	the input queue is full? c) The rest of the incoming d) None	packets are dropped
 8. [1p] What is the difference between open loop and a popular and a popular	estion and closed one attempts to resolve contestion and open one attempts to resolve contestion and open one attempts to resolve contestion and closed one is applied to	ongestion when it is only when needed.
 9. [1p] Which of the following congestion technique a) Choke packet. b) Back pressure. 	es is <i>node-to-node</i> ?	packet.
 a) Until some packet has to be resent. b) Until 3 equal ACKs are received. 	ion window could take during the Slow Start c) Up to the threshold. d) Up to 2 ¹⁶ .	?

31 de marzo de 2017 1/3



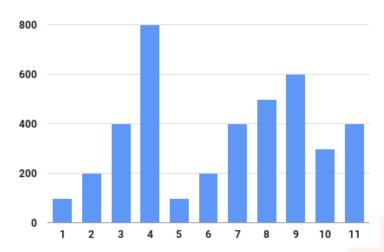
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11. [1p]	When a router processes an incoming IP packet, how does it determine where to forward it?				
	a) The route table and the source IP address	c) The IP header and the source port			
	b) The destination IP address and the source MAC	d) The routing table and the destination IP address			
12. [1p]	Choose the correct statement regarding packet switchi	ng:			
	a) All packages with the same identifier follow the same path.				
	b) All packets belonging to the same flow are routed through the same virtual circuit.				
	c) Each packet is routed independently to its destination.				
	d) The end-to-end transfer rate is guaranteed.				

13. [4p] The picture below shows the value of the congestion window (in bytes) for a TCP connection. Explain the reason of the value in each moment.



31 de marzo de 2017 2/3

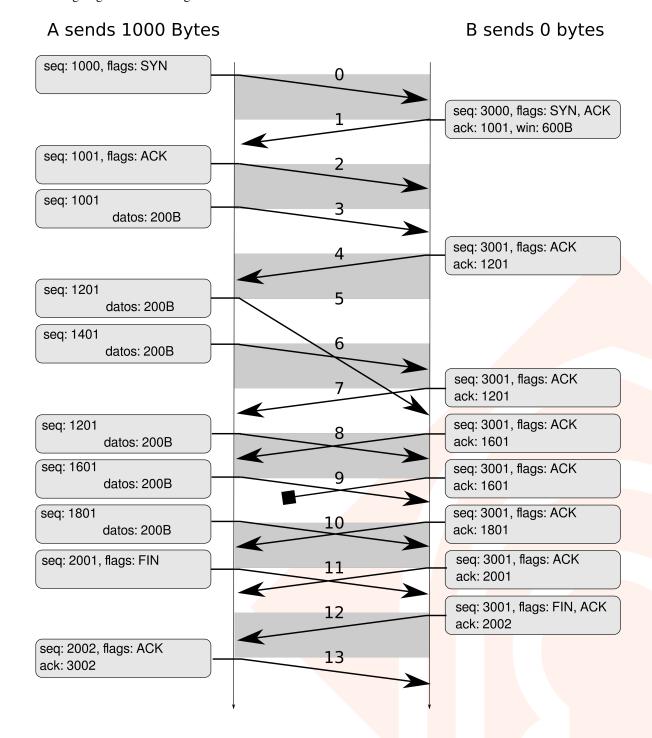


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- 14. [4p] The figure shows a TCP flow, including connection and disconnection phases. Complete the blank segments considering:
 - A is using slow-start to prevent congestion.
 - Timeout for A segments is 3 clock ticks.
 - A uses a fixed data size of 200 bytes.
 - A is going to send data segments whenever it can.



31 de marzo de 2017 3/3