

1. What part of data transfer does TCP solve, and what part does IP solve? 1 point

- The reliability of data transmissions, and the actual movement of the data
 The reliability of data transmissions, and the security of the data.
 The interface via which a user sends data, and the reliability of data transmissions
 The actual movement of the data, and the reliability of data transmissions

2. What is window size in regards packet transfer? 1 point

- The range of hours during the day that low-speed data is free on the Internet
 The size of the interface window a user sees on the screen and sends packets through
 The amount of data that can be sent before receiving an acknowledgement
 The maximum number of packets belonging to an email or file uploaded to the internet

3. What was the problem that Van Jacobson experienced and worked to solve? 1 point

- Getting messages intended for other people
 Receiving partial and indecipherable sets of postcards in the mail
 Extremely slow transmission of data when two fast internal networks were connected via a slow network.
 Having his secure data stolen during transmission

4. The storage of unacknowledged data is whose responsibility? 1 point

- The application layer of the sending computer
 The person sending the data
 Routers
 The transport layer of the sending computer
 The link layer of the receiving computer

5. How did Van Jacobson change TCP so that it would work properly? 1 point

- He changed the sending computer to send all of its data to the first router before any packets were sent across the slow link.
 He changed routers to compress data when sending it across slow links.
 He changed the receiving computer to acknowledge data that had not yet been received
 He changed the sending computer to start sending data slowly and speed up as the data was acknowledged

6. What do we learn from the four layer TCP about how to solve complex problems? 1 point

- Complex architecture diagrams help sell products to non-technical management staff
 Applications like word processors need a Link and Transport layer
 Break things up into smaller pieces, and allow many different people and organizations to tackle each piece individually.
 Generally all software works best when it is broken into quarters with 1/4 of the problem assigned to equal sized teams.

7. If you listened closely to the Bob Metcalfe video, he mentioned that Ethernet was designed after the early ARPANET had been designed and knowing how ARPANET would work allowed him to greatly simplify the design of Ethernet. What problem did the first implementation of Ethernet at PARC assume would be solved at a higher level of the network architecture? 1 point

- What address would be assigned to each device order to share the Ethernet cable
 Retransmitting lost or damaged packets
 How to detect if electrical interference on the ethernet cable caused the data in a packet to be corrupted
 How to deal with two computers attempting to start transmitting data at exactly the same time and corrupting each other's data

8. When we talk of the protocols that move data over the Internet, we talk of TCP/IP. Which of the following is FALSE about TCP/IP? 1 point

- IP provides "best effort" delivery of network packets
 TCP provides reliable messaging
 TCP is a stream of bytes
 IP makes use of TCP as its underlying transport mechanism

9. In TCP, when does a sending system know it is safe to discard packets after it has sent them? 1 point

- As soon as the sending computer has an IP address that came from DHCP
 After it has received an acknowledgement from the receiving system.
 As soon as the packet has a properly assigned IP address
 After the packet has successfully made it across the first hop

10. If you wanted to register the domain dr-chuck.com - who would you contact? 1 point

- The owner of dr-chuck.com
 The IETF (Internet Engineering Task Force)
 The owner of go.com
 Jon Postel - Because he was the "numbers guy" in the ARPANET

11. When looking at addresses from most general to most specific, we read IP addresses _____ and we read domain addresses _____. (fill in the blanks) 1 point

- left to right, right to left
 top to bottom, bottom to top
 right to left, left to right
 right to left, right to left

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