COM-208: Computer Networks - Quiz 1 (A)

Name:

- 1. Traffic is arriving at a queue with average rate A and departing through an outgoing link with transmission rate R > A. The queuing delay will therefore depend on:
 - (a) the nature/burstiness profile of the arriving traffic.
 - (b) the size of the buffer.
 - (c) Both of the above. (Correct)
- 2. In bandwidth flooding, the attacker:
 - (a) sends a large number of packets to the targeted host. (Correct)
 - (b) is a passive receiver of the sender's messages.
 - (c) establishes a large number of connections at the targeted host.
- 3. We can increase the average throughput between a source and a destination by increasing:
 - (a) the amount of data sent by the source.
 - (b) the transmission rate of the bottleneck link. (Correct)
 - (c) the rate at which the application layer of the source generates data.
- 4. A network administrator has decided to reduce by 50% the lengths of the links among all switches of the network. What will be the result of such a choice?
 - (a) The end-to-end transmission delays will be reduced by 50%.
 - (b) The end-to-end propagation delays will be reduced by 50%. (Correct)
 - (c) None of the above.
- 5. A forwarding table is used by a switch in order to:
 - (a) store entire packets before they are forwarded.
 - (b) store information about where to forward the packets. (Correct)
 - (c) fast-forward specific packets in case of congestion.
- 6. A packet sequence arriving at a switch experiences long queuing delays. How could we reduce these delays?
 - (a) By increasing the size of the buffer/queue at the switch.
 - (b) By increasing the transmission rate of the outgoing link(s) of the switch. (Correct)
 - (c) By increasing the transmission rate of the inbound link(s) of the switch.
- 7. Which of the following is true?
 - (a) With connection switching, data is lost with higher probability than in packet switching.
 - (b) With connection switching, the end-to-end delays can be predicted in advance. (Correct)
 - (c) With connection switching, the end-to-end delays are always very small.
- 8. In the Internet, packet switching is preferred to connection switching, because:
 - (a) it offers better performance.
 - (b) it can support more users at the same cost. (Correct)
 - (c) Both of the above.
- 9. During rush hours, DSL performs generally better than Cable, because:
 - (a) DSL always offers higher downstream and upstream speeds.
 - (b) DSL uses twisted-pair copper technology.
 - (c) DSL is not a shared medium like Cable. (Correct)
- 10. An IXP is:
 - (a) a special type of ISP.
 - (b) a meeting point where only regional ISPs can peer together.
 - (c) a meeting point where ISPs of any type can peer together. (Correct)

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