Chapter 1 Quiz 2

Computer Networking 2017.3.16

Name:_____ Student No:_____

Note: Write T or F before each question number

T 1. Multiplexing technologies allow multiple message signals to share a same medium at the same time. without interference

X 2. Data encoding technologies determine the amount of information carried by a single signal.

X 3. Given a 3kHz telephone line with signal-to-noise ratio of 30 dB and a binary signal, the maximum capacity is 30kbps. 6K

F 4. The capacity of a channel is only constrained by its physical bandwidth.

F 5. Before sending a packet into a datagram network, the source must determine all of the links that packet will traverse between source and destination.

T 6. In Cable TV access network, when frequency resource is limited, TDM can be incorporated to accommodate more users.

F 7. ADSL bandwidth is shared, and ADSL provides guaranteed data rate.

X 8. If network A's throughput is larger than network B's, then network A is better than B. 标准单一

X 9. Internet core is a mesh of interconnected routers, and the routers are organized in tiers.

T 10. Consider a queue preceding a transmission link of rate R. Suppose a packet arrives to the queue periodically every 1/a seconds. Also suppose all packets are of length L. Then the queuing delay is small and bounded as long as aL < R.

T 11. TDM is suitable for Circuit switching, whereas ATDM is for packet switching (with packet scheduling in router input/output port queuing).

F 12. The end-to-end delay of 10 packets equals sum of the end-to-end delay of each packet.

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1.	**2.**	**3.**	**4.**	**5.**
6.	**7.**	**8.**	**9.**	**10.**