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© 20 minutes

Quiz 1 (06/03/2023)

Topics: (i) the definitions of Packet Switching and Circuit Switching and their differences; (ii) performance metrics (packet loss, delay, and throughput); and (iii) the Internet's protocol stack and the layers' services

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how much you can elaborate your answer in terms of the descriptions 1. [General Introduction] What is the Internet? There are some correct answers (and many wrong answers!). Your grade is proportional to from our first class. * (2 Points)

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column) and network layers (top row). " (z Points)		Transfer of a bit into and out of a transmission media.	Transfer of data between neighboring network devices.	Transfer of data between one process and another process (typically on different hosts).	Delivery of datagrams from a source host to a destination host (typically)	End-to-end addressing and routing
etwork layers	Application Layer	0	0	0	0	\circ
(top row).	Transport Layer	0	0	\circ	\circ	\circ
(z Points)	Network Layer	\bigcirc	\bigcirc	\bigcirc	\circ	\bigcirc
	Link Layer	\circ	\circ	\circ	0	\bigcirc
	Physica Layer	\bigcirc	\bigcirc	\circ	\circ	\bigcirc

packets have length of 200 bits. What is the maximum tolerated input 4. [Performance Metrics - Queuing Delay] In circuit switching systems, queuing delay is heavily impacted by the "traffic intensity". Assume packet rate (in packets/s) for the network not to crash (i.e., packets that a switch has an outbound transmission rate of 1.0 Gbps and experience an "infinite" queuing delay)? * (2 Points)

5. [Circuit Switching vs. Packet Switching] Why does the Internet deploy packet switching instead of circuit switching? * (2 Points)

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