

CSC 458/2209 – Computer Networking Systems

Handout # 29: Final Review



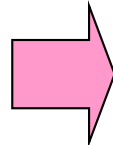
Professor Yashar Ganjali
Department of Computer Science
University of Toronto

ganjali7@cs.toronto.edu

<http://www.cs.toronto.edu/~yganjali>



Final Review

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- Final exam logistics
 - Review of principles
 - Where next?

Final Exam Logistics

- Final Exam
 - Time: April 26th, 2pm – 4pm
 - Location: MS 3153
 - Please double check before the exam
- Examination aid allowed: non-programmable calculators
 - Closed-book, closed-notes
 - *No cell phones allowed*
- Bring ID: “Students are required to present a valid form of identification (ID) that contains both a current and visible photo and signature.”

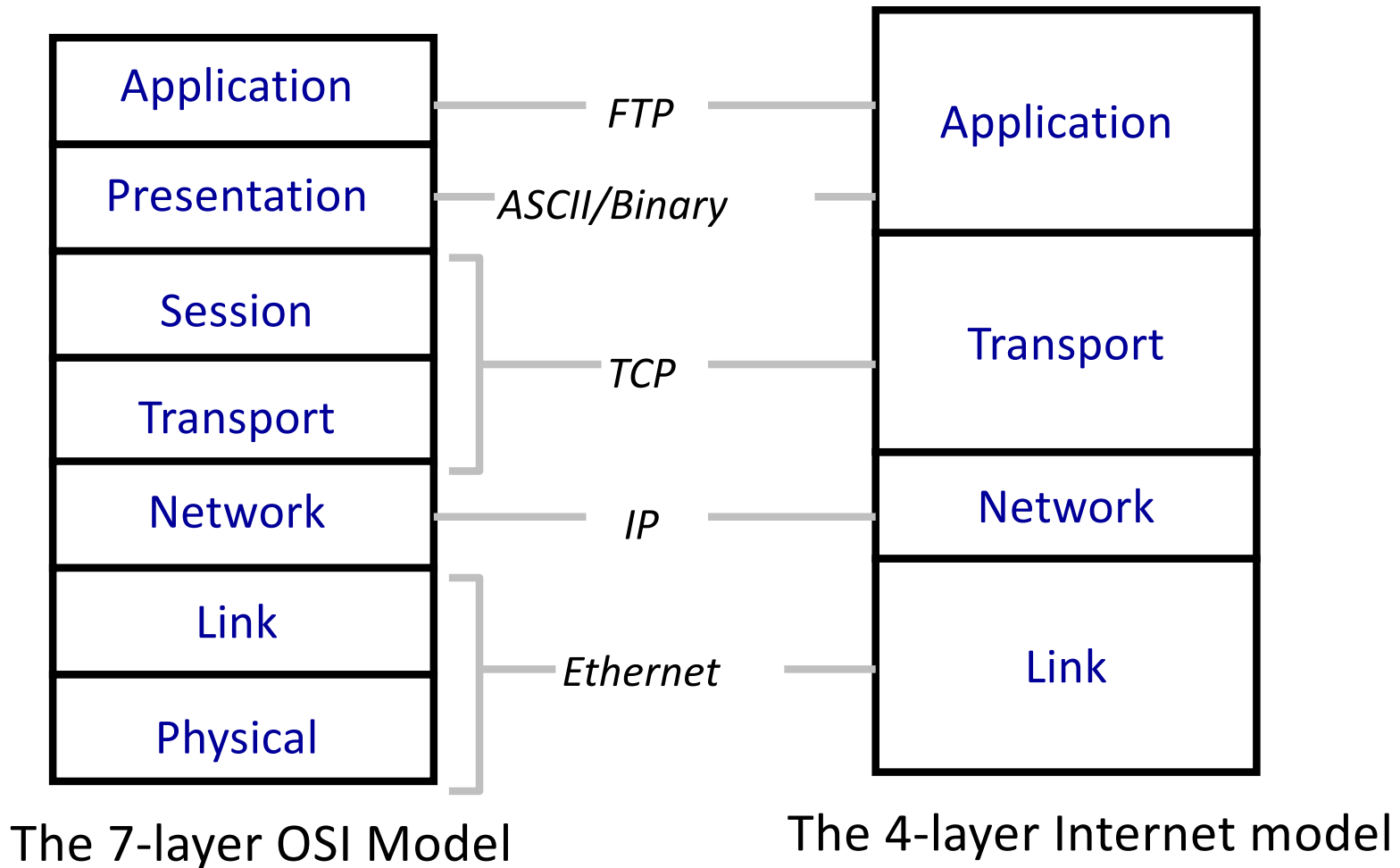
Final Exam

- Part I – Multiple choice
 - Multiple correct answers for each question
- Part II – Definitions
 - 4-5 sentences each
- Part III – Longer Questions
 - Might need more time than Part I & II
 - Still very simple problems
 - Similar to the midterm, sample problems, and problem sets

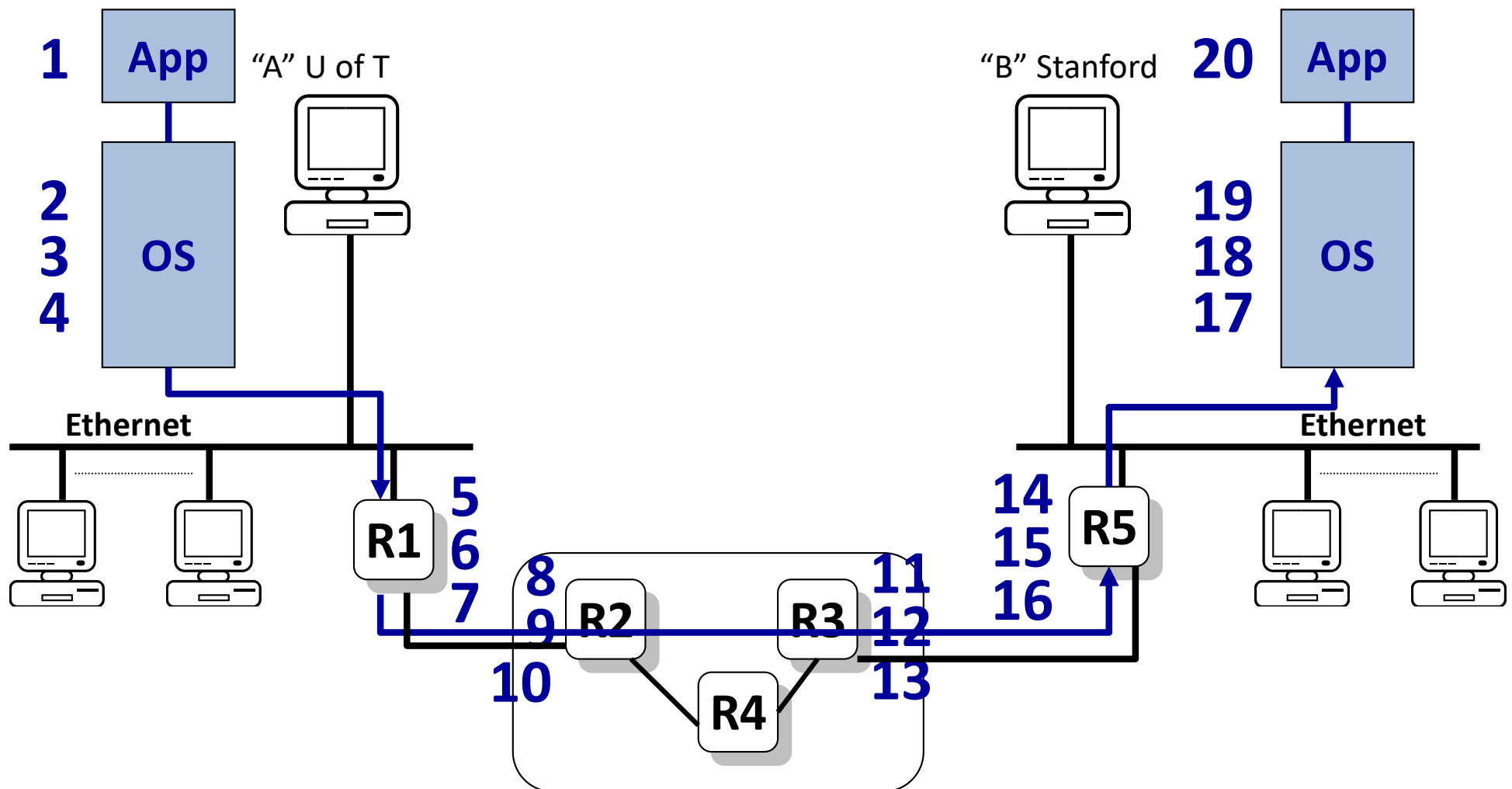
Final Review

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- ➡ Review of principles
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Review of Basic Concepts



Example: FTP over the Internet Using TCP/IP and Ethernet



Review of Basic Principles

- Basic ideas:
 - Packet switching, statistical multiplexing, layering,
- Link Layer:
 - Channel capacity, encoding and clock recovery, error detection/correction, Ethernet switching
- Network Layer:
 - Fragmentation, Bellman-Ford, Dijkstra, addresses and lookups, BGP, IGP

Review of Basic Principles – Cont'd

- Transport Layer:
 - Flow control, congestion control, retransmissions and sliding windows, congestion avoidance (RED)
- Miscellaneous:
 - Queuing mechanisms
 - Middleboxes
 - Software-Defined Networking
 - Data Center Networking,
 - Networks for ML
 - Overlay Networks

Final Review

- Final exam logistics
- Review of principles

 Where next?

Where Next?

- Courses to take:
 - CSC2229: Networks for Machine Learning
 - CSC2206: Computer Systems Modelling
 - CSC2221: Introduction to Distributed Computing
- Individual study courses
 - CSC494 and CSC495
 - USRA
 - ...

Thank You!