- Multicast application examples. Multicast vs. unicast reliability. Basic principles of network layer multicast. Multicast scoping. Role and operation of the IGMP protocol. MOSPF. DVMRP.
- 2. Basic principle of the PIM-SM protocol shared tree. Basic idea of the SSM model (S,G) multicast channel, source-specific tree. What does source filtering mean, why do we need it?
- 3. Advantages and drawbacks of IP multicast economic and technical.
- 4. Basic principle of Xcast
- 5. Basic principle of Application Layer Multicast.
- 6. Basic principles of UDP. To what kind of applications it is used? What happens if checksum wrong? UDP and fragmentation how and why?
- 7. Basic principles of TCP. Acknowledgements. Difference between sequence number and ack number. Building a TCP connection. Difference between Stop-and-wait and the TCP flow control. Role of the advertised window size. How to handle a fast sender? Sliding window.