

Write on each paper

- S-38.2188 Computer Networks, Examination Dec. 18th, 2008
 - your student identification number
 - your name
 - signature
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NOTE! Avoid excessively long answers. Before answering try sketching the answer on another paper to avoid 'oh, I forgot this'-type additions.

Unless otherwise noted, the answers should be in the essay form.

Make a note on the paper indicating whether you made the homework assignments during the spring or autumn 2008!

1. Explain briefly the following acronyms/concepts. For acronyms also tell what they are short for. (6p)
 - a) RSVP
 - b) RTP
 - c) SMTP
 - d) BGP
 - e) data integrity
 - f) ASN.1
2. Explain Dijkstra's (LS) and Bellman-Ford (DV) algorithms for routing. What are the benefits and drawbacks of each? (6p)
3. You send email to your friend who studies in Canadian university. What messages travel in the Internet before your friend can read your message? (6p)
4. One can observe network congestion both in end systems and routers. What observations one can utilise to define level of congestion and how these observations can be utilised in transport layer protocol? (6p)
5. Write an essay about the functional areas of network management. (6p)