

## Sessional II Content

This is the revised content for the S II exam. I have excluded content upon request of students.

1. SMTP
2. TCP header
3. UDP header
4. Stop and wait protocol
5. Go back -N
6. Selective repeat
7. Congestion control in the transport layer
8. Additive increase multiplicative decrease and slow start
9. Network Layer
10. Functions of the network layer
11. IPv4 header
12. Fragmentation (offset and MF flag)(Only theory, no numerical from this part)
13. Header length in IPv4 header
14. IP Addressee
15. Classes of IP addresses
16. Subnetting

## 17. Subnet masking

### Numerical Questions will be from the following topics:

Major part of the paper will be from the following topics. For the remaining topics, you just need to know what they are

- Transmission time in client server and peer to peer model
- Iterative and selective query in DNS
- Stop and wait protocols
- TCP header and IPv4 header
- Go back N and selective repeat
- Additive increase and multiplicative decrease
- Fragmentation
- Subnetting and IP Classes
- Subnet masking
- You can check the following play lists for these topics:

[https://www.youtube.com/watch?v=7NFJGH4PzAs&list=PLmXKhU9FNesSjFbXSZGF8JF\\_4LVwwofCd](https://www.youtube.com/watch?v=7NFJGH4PzAs&list=PLmXKhU9FNesSjFbXSZGF8JF_4LVwwofCd)

<https://www.youtube.com/watch?v=4D55Cmj2t-A>

<https://www.youtube.com/watch?v=VwN91x5i25g>