

Sessional II Content

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

SMTP

TCP header

UDP header

Stop and wait protocol

Go back -N

Selective repeat

Congestion control in the transport layer

Additive increase multiplicative decrease and slow start

Network Layer

Functions of the network layer

IPv4 header

Fragmentation (offset and MF flag)(Only theory, no numerical from this part)

Header length in IPv4 header

IP Addressee

Classes of IP addresses

Subnetting

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=4D55Cmj2t-A>

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