

KEY KNOWLEDGE:

- types
- functions: HW + SW
- NOS + webserver SW
- types of communication tech
- network protocols
- security issues
- types, purposes, functionality of websites for info exchange online comms
- HW and cross platform SW to support websites

CHAPTER TOPICS

- Networks P.3
- Types P.8
- Communication Stds P.14
- Network HW + SW P.18
- Transmission media P.28
- Network Security P.32
- Physical design P.35

Network O.S
 Functions: file access, print, users, authentication, logs
 Microsoft, Novell, Apple

Web Client SW
 - browser: new pages, send email
 - email
 - videoconferencing
 - I.M
 - chat

HW and SW
 [NIC] [INAP] [SWITCH] [SERVER]
 [modem] [digital cable] [SW websites]
 [URL HTTP] [Blogs forums wikis] [website software web server] [SMTP POP3 FTP]

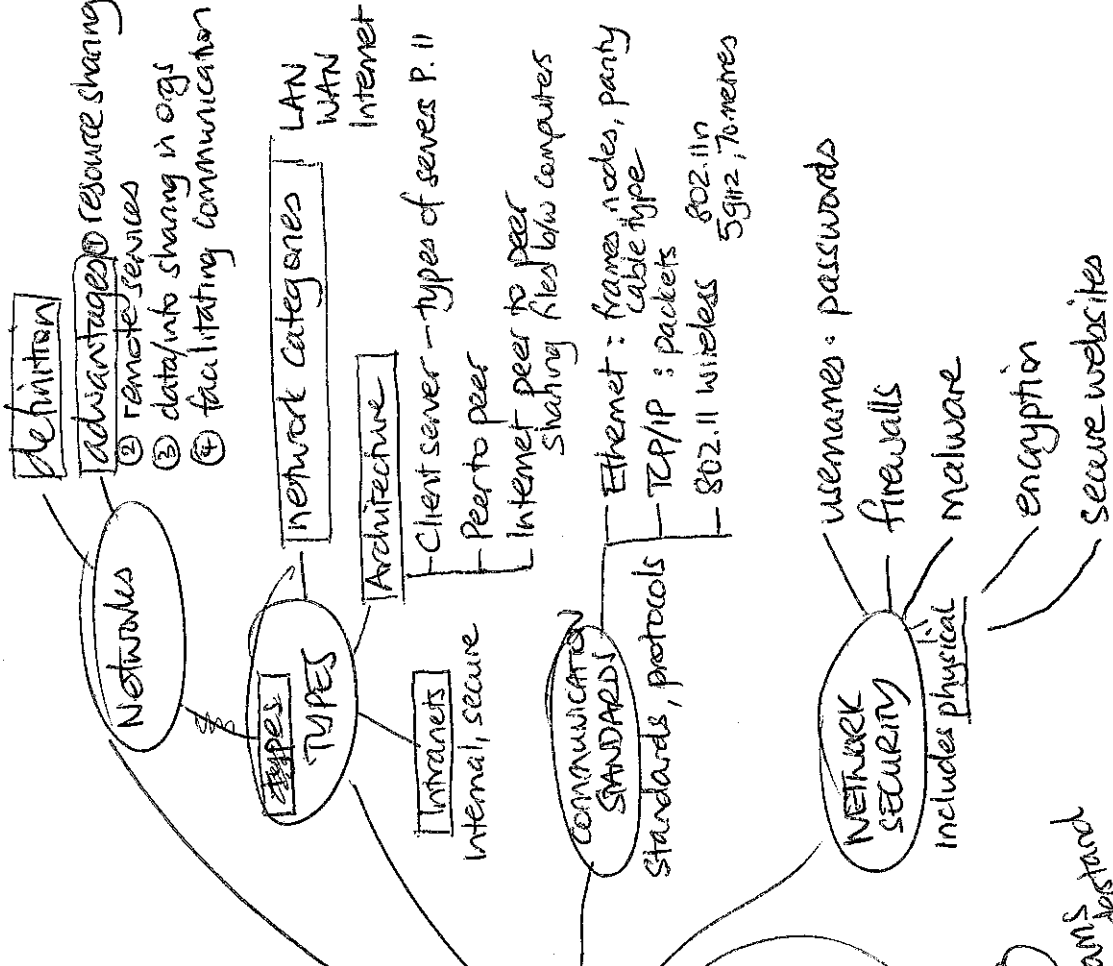
TRANSMISSION MEDIA

PHYSICAL
 - Twisted pair
 - coaxial
 - fibreoptic

WIRELESS
 - Radio
 - Microwaves
 - satellite
 - Infrared

PHYSICAL DESIGN
 Network Diagrams might help you understand BUT not in exam

NETWORKS Chp 1



Definition

- Advantages
- Resource sharing
- Remote services
- Data/info sharing in orgs
- Facilitating communication

Network categories

LAN
 WAN
 Internet

Architecture

- Client server - types of servers P. 11
- Peer to peer
- Internet peer to peer
 Sharing files low computers
- Ethernet: frames, nodes, parity cable type
- TCP/IP: packets
- 802.11 wireless
 802.11n
 802.11g
 802.11b

COMMUNICATION STANDARDS

Standards, protocols

NETWORK SECURITY

- includes physical
- usernames, passwords
- firewalls
- malware
- encryption
- secure websites