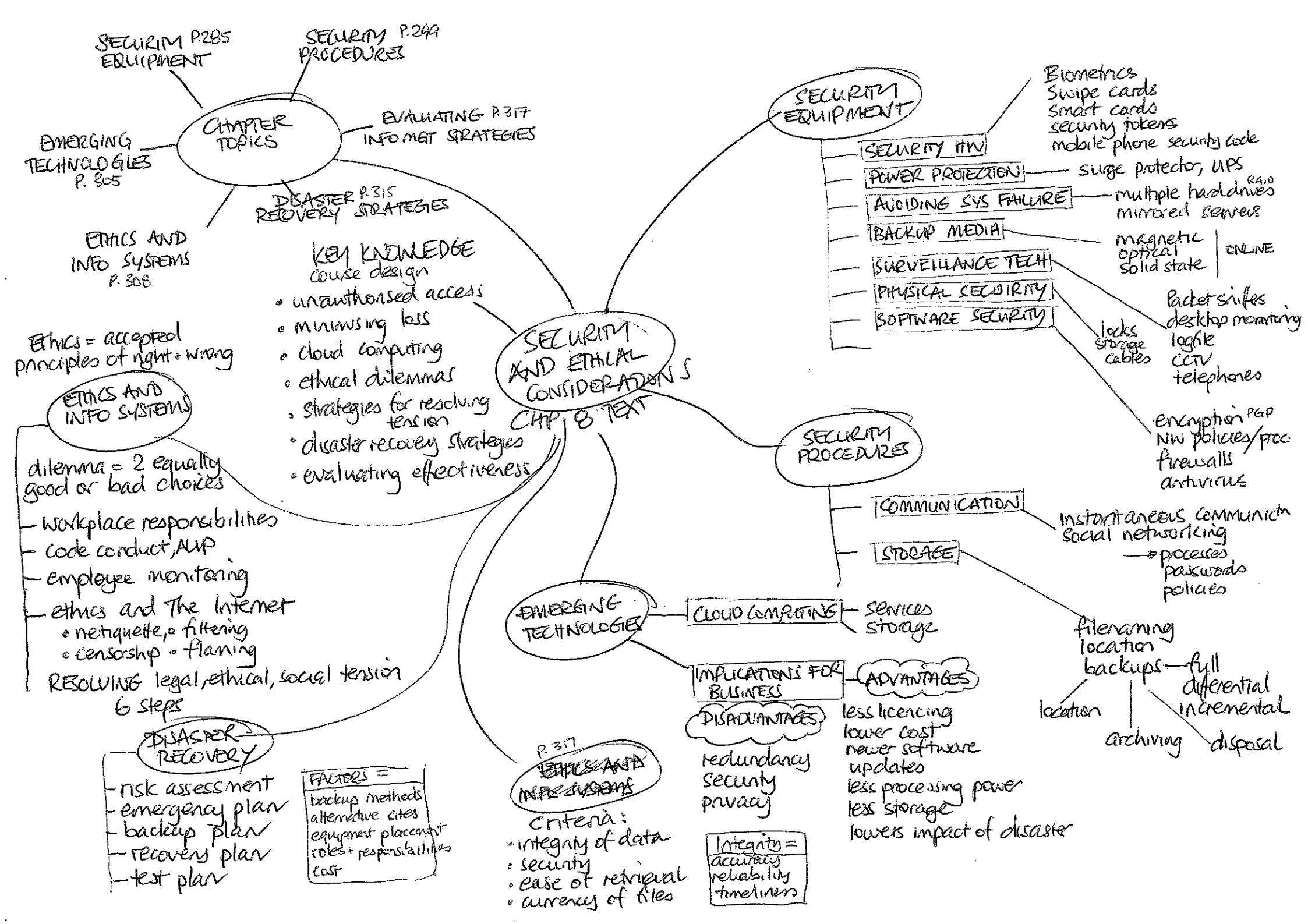
SECURITY AND ETHICAL CONSIDERATIONS
CHP 8 TEXT
CHAPTER TOPICS
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EVALUATING INFO MGT STRATEGIES P.317
DISASTER RECOVERY STRATEGIES P.315
ETHICS AND INFO SYSTEMS P.308
EMERGING TECHNOLOGIES P.305
KEY KNOWLEDGE
course design
• unauthorised access
• minimising loss
• cloud computing
• ethical dilemmas
• strategies for resolving tension
• disaster recovery strategies
• evaluating effectiveness
SECURITY EQUIPMENT
SECURITY ITN
Biometrics
Swipe cards
Smart cards
security tokens
mobile phone security code
POWER PROTECTION
surge protector, UPS
AVOIDING SYS FAILURE
RAID
multiple hard drives
mirrored servers
BACKUP MEDIA
magnetic
optical
solid state
ONLINE
SURVEILLANCE TECH
Packet sniffers
desktop monitoring
logfile
CCTV
telephones
PHYSICAL SECURITY
locks
storage cables
SOFTWARE SECURITY
encryption PGP
NW policies/proc
firewalls
antivirus
SECURITY PROCEDURES
COMMUNICATION
instantaneous communicn
social networking
processes
passwords
policies
STORAGE
filenaming
location
backups
full
differential
incremental
location
archiving
disposal
EMERGING TECHNOLOGIES
CLOUD COMPUTING
services
storage
IMPLICATIONS FOR BUSINESS
ADVANTAGES
less licencing
lower cost
newer software updates
less processing power
less storage
lowers impact of disaster
DISADVANTAGES
redundancy
security
privacy
P.317
ETHICS AND INFO SYSTEMS
criteria:
• integrity of data
• security
• ease of retrieval
• currency of files
Integrity =
accuracy
reliability
timeliness
ETHICS AND INFO SYSTEMS
Ethics = accepted principles of right + wrong
dilemma = 2 equally good or bad choices
workplace responsibilities
code conduct, AUP
employee monitoring
ethics and The Internet
• netiquette, • filtering
• censorship • flaming
RESOLVING legal, ethical, social tension
6 steps
DISASTER RECOVERY
risk assessment
emergency plan
backup plan
recovery plan
test plan
FACTORS =
backup methods
alternative sites
equipment placement
roles + responsibilities
cost