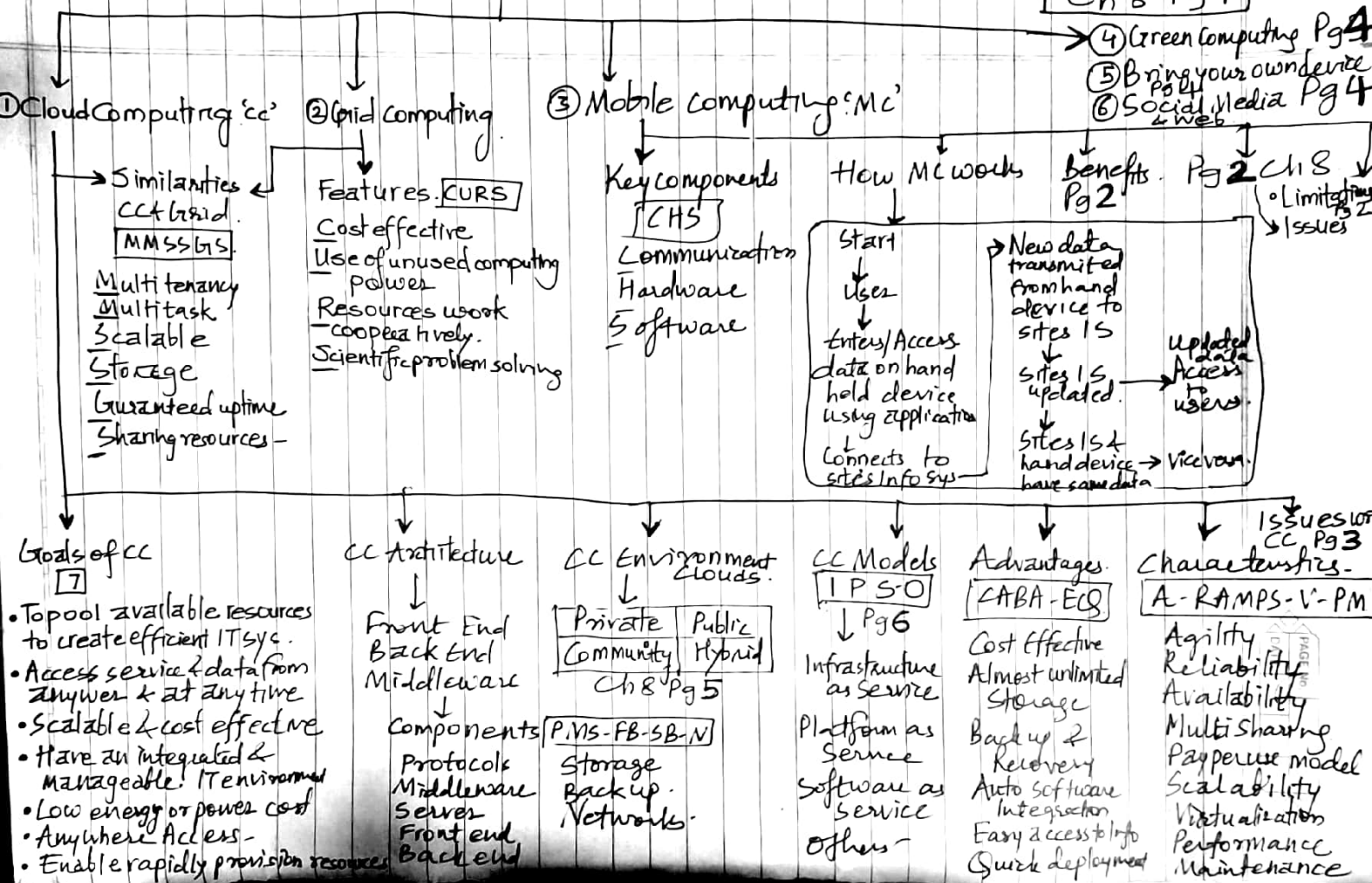


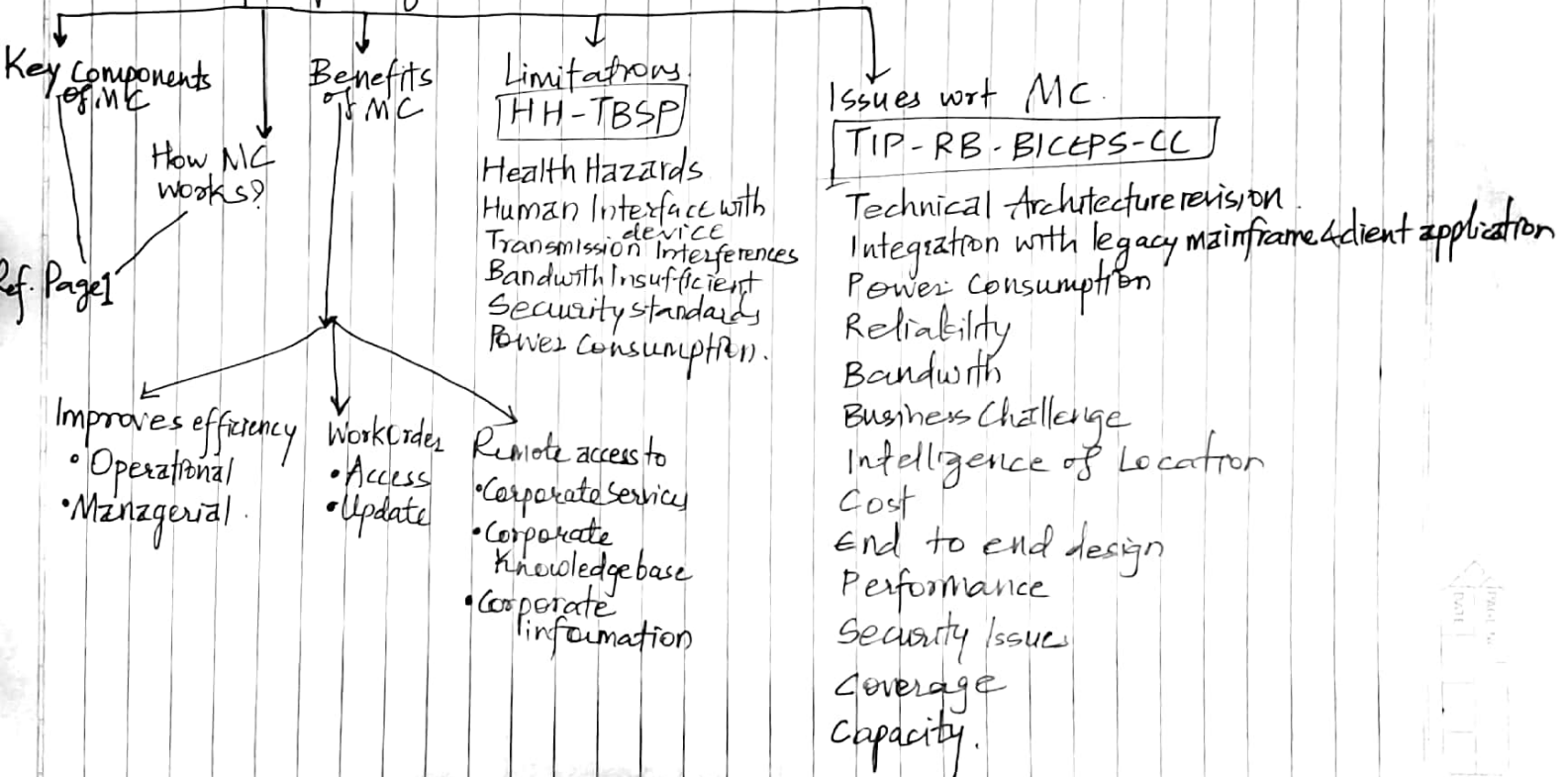
ISCA Ch. 8 Summary of ICAI SM - by CA Amruta Sherode

Ch 8 Pg 1



Ch. 8 Pg 2

③ Mobile Computing (MC)



Ch. 8 Pg 3

① Cloud computing

Goals
⑦

CC Architecture
PMS-FB-SB.

CC Environment
(4)

Characteristics
A-RAMPS
V-P.M

CC Models
IPSO

Advantages
CHBA-ES

Issues w/ CC

Security Issues -

CID-PAISA-GALATI

Confidentiality

Integrity

Data Stealing

Privacy

Audit

Identity Mngt & Access Control

Software Isolation

Application Security

Governance

Architecture

Legal

Availability

Trust

Incident

Response

Implementation/
Adaptation Issues -

TISUE-H

Threshold Policy

Inter-operability

Software d/pt in cloud

Unexpected behaviour

Environment friendly

Hidden Costs

Ch 8

[Ch 8 Pg 4]

④ Green Computing

[PREPP]

- Plan Prepare for Green Computing
- Recycle
- Energy Conservation
- Purchase decisions be environmentally sound
- Paper Consumption

⑤ Bring Your Own Device 'BYOD'

Advantages [BEENS]

- Budgets lower
- Employees happy
- Employee efficiency ↑
- New tech. adopted
- Support requirement reduces

Emerging BYOD Threats - [DAVI]

- Device risk
- Application risk
- Network risk
- Implementation risk

⑥ Social Media, Web 2.0, Web 3

Components of Web 2.0

[WBC-FFM-UR]

- Wiki
- Blogging
- Communities
- File Sharing
- Folksonomy
- Mash ups
- Usage of Ajax & others
- RSS generated syndication

Applications of Web 2.0 - fields

- Social Media
- Marketing
- Education

Components of Web 3

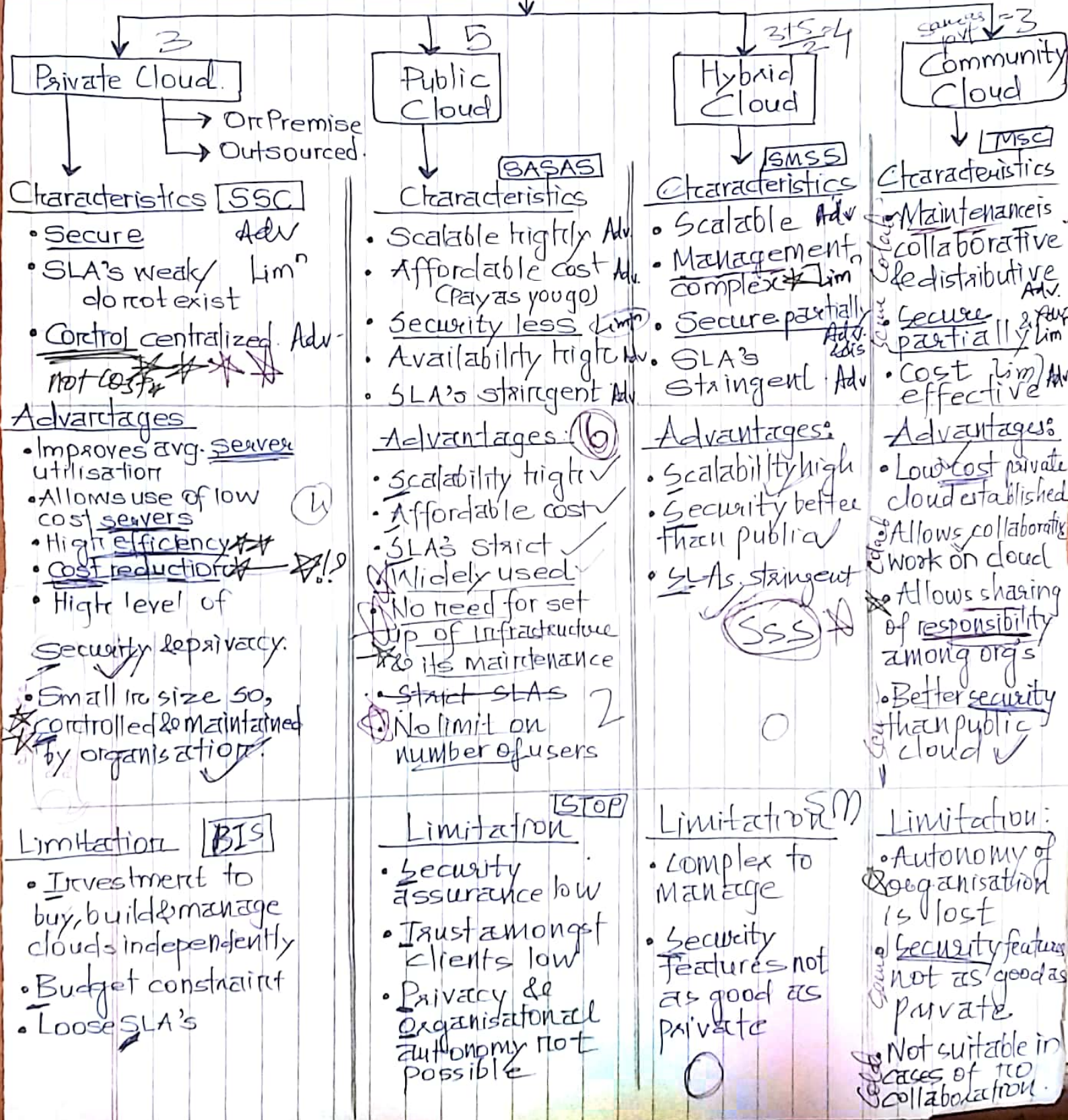
Semantic Web Web Services

Categories of Social Networks - PASS S.I.V.S COLL

- Police & Military Network
- Arts Network
- Specialist Groups
- Study Circles
- Sports Network
- Inventors
- Mixed Networks
- Shopping
- Contacts Social
- Others
- Utility Services

Cloud Computing Environments

Ch 8 Pg 5



Basic Cloud Computing Service Models (as per NIST - National Institute of Standards & Technology)

Infrastructure as Service

Examples

AE-GO

- > Amazon Web Services
- > Eucalyptus
- > Google Compute Engine
- > OpenStack

Services by typical Service Providers

CSNL

- > Compute
- > Storage
- > Network
- > Load Balancers

Characteristics of IaaS

W-MMSI

- > Web access to resources
- > Metered Services
- > Centralized Management
- > Elasticity & Dynamic Scaling
- > Infrastructure Sharing

Different instances of IaaS

D-BONDSS

- > Desktop as Service
- > Backend as Service
- > Network as Service
- > Database as Service
- > Storage as Service

Platform as Service

Examples

- > Google App Engine
- > Windows Azure Compute

Services by typical Service Providers

PADO

- > Programming Languages
- > Application Frameworks
- > Databases
- > Others

Characteristics of PaaS

WAS CAT

- > Web access to development platform
- > All in one (dept env)
- > Scalability built in
- > Collaborative Platform
- > Access Office
- > Diverse Client Tools

Software as Service

Examples

- > Google Picasa.com
- > Google docs

Services by typical Service Providers

M-DGS SSM

- > Social Networks
- > Business Services
- > Document Management
- > Mail Services

Characteristics of SaaS

SOW - AAMM

- > Scalability better
- > One to Many
- > Web Access
- > Availability High
- > API Integration
- > Multi device Support
- > Centralized Management

Different instances of SaaS

ATE

- > API as Service
- > Testing as Service
- > Email as Service

CIDS

Other Cloud Service Models Instance

- Communication as Service
- Identity as Service
- Data as Service
- Security as Service

ESC