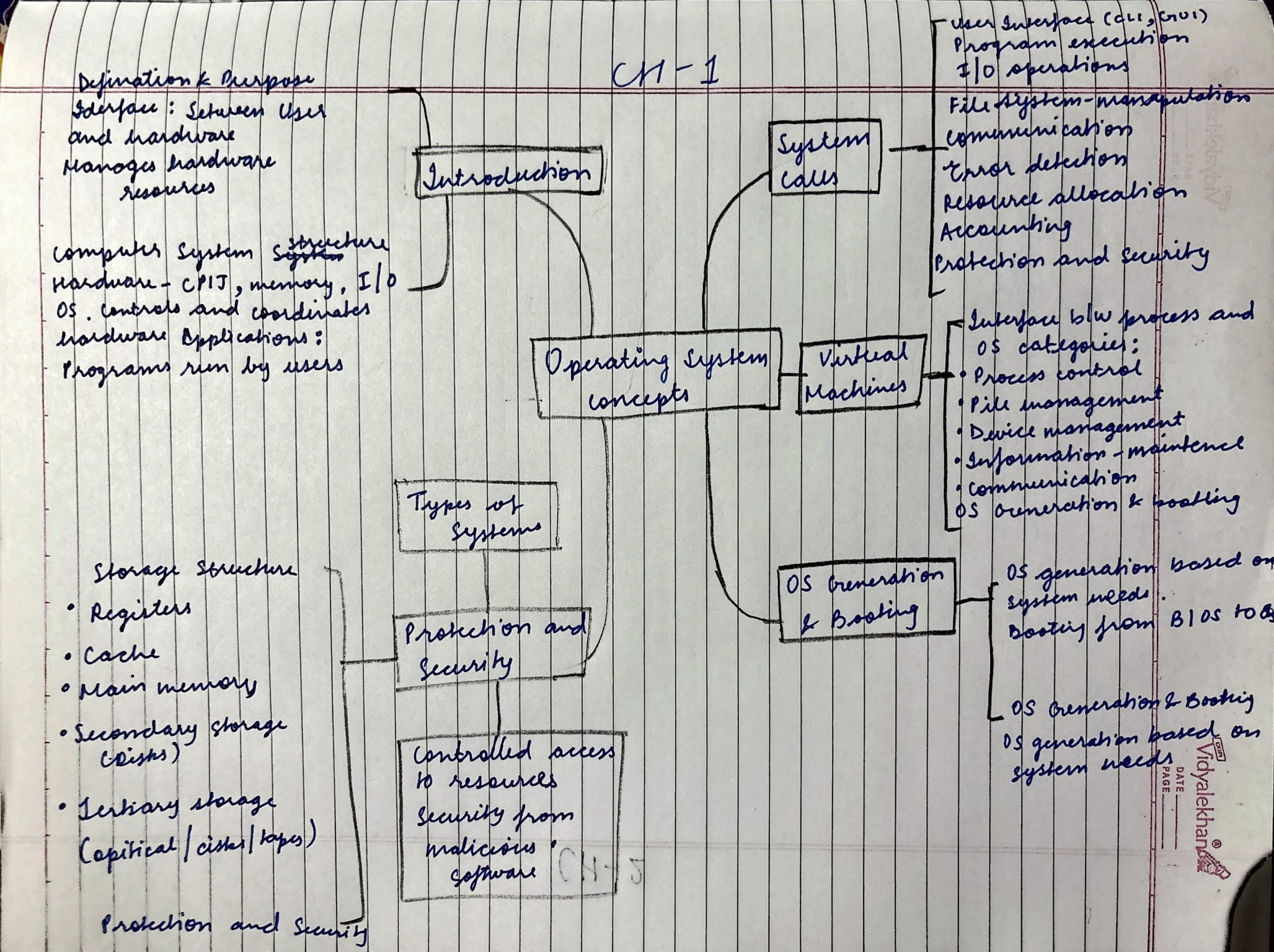
Ch-1


Operating System concepts
Introduction
Defination & Purpose
Interface: Between User and hardware
Manages hardware resources
Computer System structure
Hardware - CPU, memory, I/O
OS. controls and coordinates hardware
Applications: Programs run by users
System Calls
User Interface (CLI, GUI)
Program execution
I/O operations
File system - manipulation
communication
Error detection
Resource allocation
Accounting
Protection and Security
Virtual Machines
Interface b/w process and OS
categories:
• Process control
• File management
• Device management
• Information - maintence
• communication
OS Generation & booting
OS Generation & Booting
OS generation based on system needs.
Booting from BIOS to OS
OS Generation & Booting
OS generation based on system needs
Types of Systems
Protection and Security
Storage Structure
• Registers
• Cache
• Main memory
• Secondary storage (Disks)
• Tertiary storage (Optical / disks / tapes)
Protection and Security
Controlled access to resources
Security from malicious software
Ch-5

CH-2 : Operating-System Structures