Operating system (1)

(1) Basic Introduction - types of Os

-> process diagram

 $\rightarrow$  system calls

(2) Process scheduling -> FIFO, SJF, Round Robin

(3) Process synchronization - Semaphore

(4) Deadlock and threads -> Bankeris Algorithm.

(5) Memory Management -> Paging

→ segmentation

-> Fragmentation

-> Virtual memory

-> Page Replacement algo

(C) Dish scheduling -> SCAN, (SCAN, FCFS

(7) UNIX commands -> Is, mkdir, chmod.

(8) Fîle management & security

L> sequential access

Random access

-> Basic security

Introduction to operating system & Functions 面 L-1,1: -> user works to access hardware Usus 4542 4543 -> Tuis is done using operating Applications → y os was not there, user will operating have to separately write program for system each has dware. Hourdw are CPU, RAM, JIO -> Primary goal -> convenience. duia of os -> throughput ( no of tasks executed per unit time) Functions of OS is lesource monagement -> important if there are multiple users. (parallel processing). management of multiple processes are open, those (1) Process Should be managed by OS- CPU scheduling is neguired to execute processes. management secondary storage (Hard disk) (iii) Storage L> done through file systems (PV) Memory Management. allocation and deallocation Lize is limited. of memory.

(4) Security and Privary -> Processes should not interpere (3) with each others data.