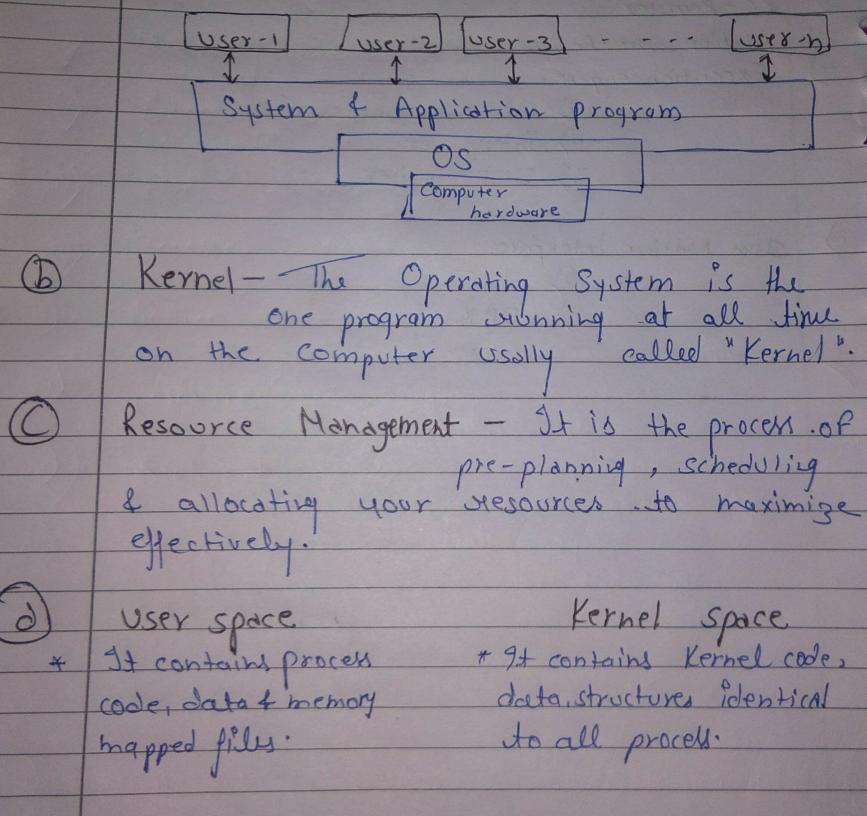
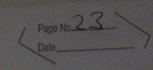
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Monolithic Gernel microllernel system * A Kernek type that provides A type of Karnel in Os where the mechanism such as low develadoress space management entire as works in to impliment in Os. the Krrael Space fast * Slow * smaller insize. Larger insize [SECTION-B] [Answer - 2 (a)] Layered structure of OS - One way to achieve modularity in the OS

is the layered approach In this the bottom

layer is the hardware 4 the top most layer

is the user interlace. is the user interface. Ex- MSDOS, UNIX

new operation (Existing Layer U-1)
Operation

The main advantages of the layerd approach is Simplicity of construction of Debbugging.

(B) - Services Given by OS * In Operating System provides many more Services for effective & efficient way to handle any problem l'arise en Operating System. · A list of Services Civen by Os. 1) Memory management Process Management file Management Processor " Device 1 fesource " vi) Network 9, Secondary storage " viii) Uix) Ilo devices " Security xi) Program execution.

Leenterant Kernel - It enables processes

cohile in Kernel mode. They do not hinder
other processes from also entering Ex- The case is a disk lead [User]

| User]

| A | Merrie
| Exception | Intropt | Intropt | moder |
| Manufer | Intropt | manufer |
| Intropt | manufer |
| Intropt | handler | Need of OS inour Computer An OS is the most important software that It is manage the memory of process of composed well as all of its software and hardware. it also allow you to communicate with the computer without knowing how to speak a computers language. cusithout an OS a computer is useling.

File management: Files & directories creation & deletion. For manupulating files & directories. mapping files onto Secondary Storage. Back up file. Process Management process Screation & deletion Suspension & Mesumption Communication process. Je offer buffer caching system. Network management main memory management It helps to keep track of primary memory. Seconty Management
check ability to Mead write, delete files.

Page No. Z. 7 vi) Secondary Storage Monagement · Storage allocation · Freel space management [AMB'wer - 3 part 2] Keal Time Operating System Then time of 05 serve real time system.

The time interval require to process to supports is very small. It are used when there are time requirements that are very strict like missile System Robot Air traffic Control bysken Types of Real time OS - Two Types of i) Hard Real time operating dystem. Hard Real time OS - Then are meant for application whom times constraints are very strict of even shortest possible delay are not acceptable.

Ex- Automatic Parachutes ii) Soft Rel time OS - There OS are for application who for time constraint is less Ex- scientific Experiments, weapon bustom.