## CAE-1 OS

- 6 The following are the system components:
  - Orain numory of oragement
  - > Refers to management of Primery (main nemory.
  - > Main Memory provides a bank Storage.
  - @ Processor management:
  - > The OS duids which process gets the processor when and for how much time.
    - > kups tracks y prous prousor and status
  - @ File Monagement
  - > The bile is namedly organized into develores ber as carry ravigation and usage.
  - shups trades of information, location, uses, status etc. the collecture facilities one often often known of file system.
  - 1 Devia Management.
  - > An Os manages device communication via their respective drivers

- → Kups tracks of all duries duries. Program responsible for this task.
- s Allocates the durin in efferent way
- 10 system nuneyement
- > A general duiv-druen interface
- > Drings for sperific herdwer duries
- Sunday storage Management:
- > The main purpose of a computer system is to create programy.
- > System have several limb of of storage.
- > Fru Spau monagement
- -> Storage allocation
- (11) Metworking
- > computation Speed-up
- s Enhanced reliability,
- ( Chotestion System:
- allows the the concurrent evention of multiple process.

- > Distinguish I w authorised funanthorised usage. Command Interpreter System one of the important system programs for an Os.
- It is an interface of the OS with the wise. user.
- > & prous erection and management.
- > 9/0 handling,
- I File System acoust acces.

8	long turn scheduln	Short - term Scheduler	nedism-turn Schiduler
	Job & Cheduler scheduler	CPU Scheduler	Prous swapping Scheduler
	Speed in Insthan short term schedeler	Speed in Jaskert comony others two	\$ speed in blw both short 4 long term scholuter
	It is almost absent or minimal in him sharing	also minimal in how sharing system.	Part of time Shewing Systems
(V)	system.	Provides lever control over degree of	Reduces the degree of muttiprogramming

multiprogramming

( ) Selet process from pool and Loads them into memory for enecution

set select those process which are wady to encute

It can re-introduce the proces into memory and eneution can be continued.

## PART-A

@ 9t provides the services of the oste the unen program via an API. et also provides on greface Hwa procus and OS.

1 User Level Marcad

Kernel level mead

O' Implement cot by wars.

- @ Content Switch in luy
- M Morrecopized by 05.

emplemented by OS.

more content switch time thin in recognized a sy Os.

3) DMA contains a control unit to deal with The control function during DMA operations such as wood, write and interrupt.

- 19 Content suited in the process of storing the state of a process / thread, so that it can be restored and resume execution at later point of time.
- Scheduling heals with the problem of deciding which of the proasses in the The vady quive in to be allocated the CPU. The planing one the criterials.
  - 1 & CPU Uli lization
  - 1 Throughput
  - (1) Turnonound time
  - waiting time
  - O response time.