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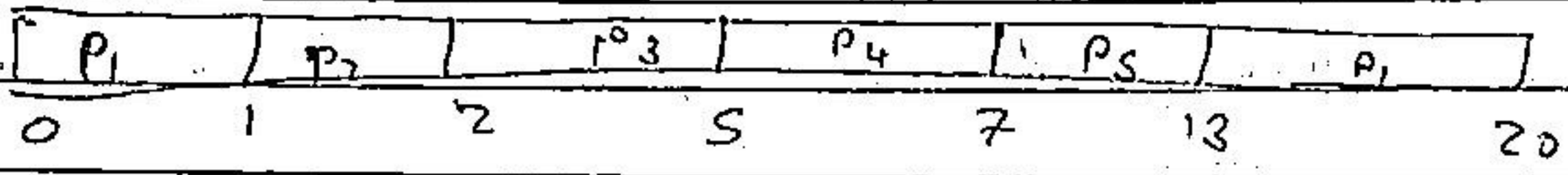
Q3)

Process	priority	Finish time	TAT	WT
P ₁	0	2	2	0
P ₂	1	3	3	1
P ₃	2	5	5	3
P ₄	3	7	7	4
P ₅	4	11	11	6

Average TAT = 5.6 Average WT = 2.8

Start SJF - non-preemptive

Gantt chart

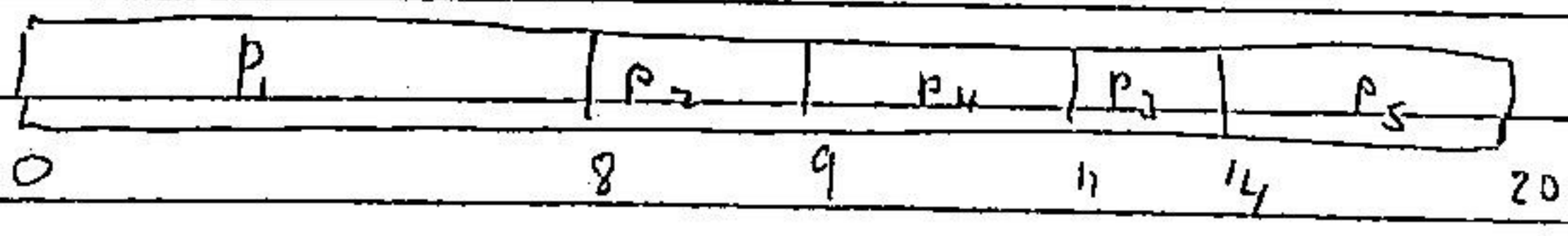


Process	priority	Finish time	TAT	WT
P ₁	0	11	11	6
P ₂	1	3	3	1
P ₃	2	5	5	3
P ₄	3	7	7	4
P ₅	4	11	11	6

Average TAT = 7.5 Average WT = 4

SJF → Non-preemptive

G → Gantt



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1) The Type of System calls

There are mainly five types of system calls. These are explained as follows.

1) Process Control :

There are mainly five types of system calls

The system calls deals with process such as the process creation termination etc.

2) File management

These system calls are responsible for manipulation such as creating file, reading a file, writing into a file etc.

3) Device management.

These system calls are responsible for device manipulation such as reading from device buffers, writing into device buffers etc.

4) Information maintenance

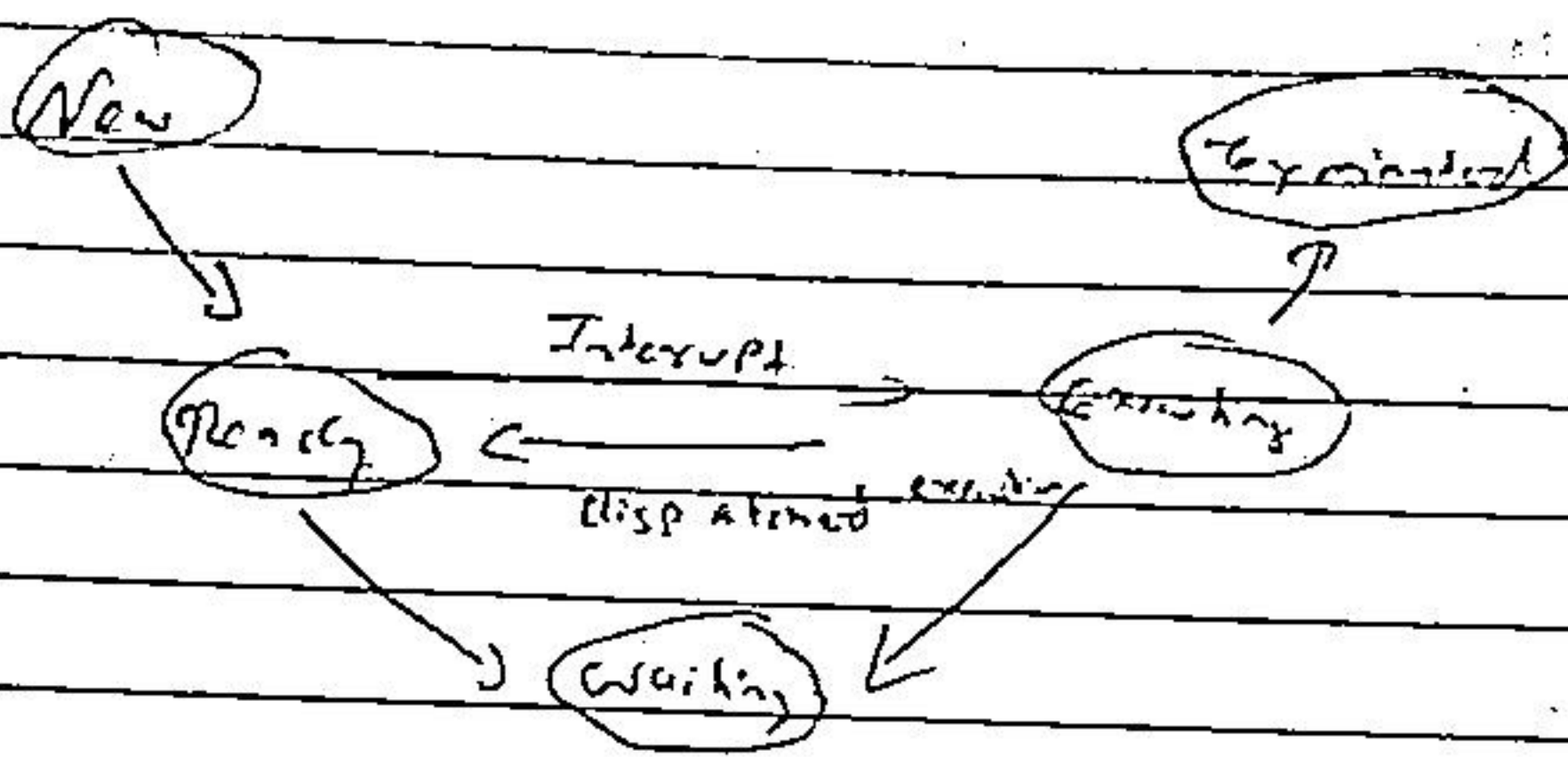
These system calls handle information and its transfer between the OS and the user program.

5) Communication

These system calls are useful for inter process communication. It also deals with creating and deleting communication facilities.

Process			
PCB			

If a program or application under execution is called process.
 A process includes the execution context. A program resides on the disk. So a program gets loaded in main memory. So it should be transferred from disk to memory.



- New
 The process being created
- Ready state
 Process ready to run but it is waiting for CPU assigned

Execution state

Process is said to be running state if it is currently executing.

waiting
 A process can wait until its execution because it is waiting for some to happen. Such as I/O completion.

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