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# Assignment No2 Solution

## CS 604

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## Solution:

### Question No: 1

Consider the following set of processes, with the CPU burst time given in milli seconds:

Process	Burst Time
P1	10
P2	1
P3	2
P4	1
P5	5

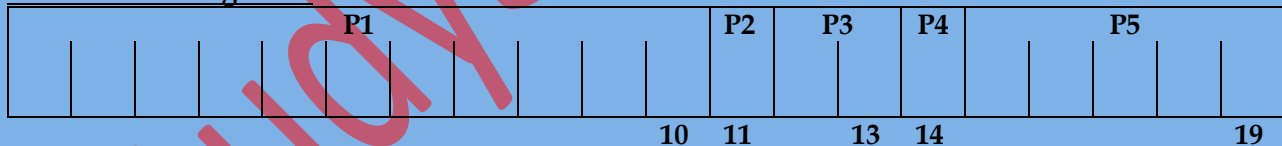
The processes are arrived in the order P1, P2, P3, P4, P5, all at time 0.

- Draw Gantt chart showing the execution of these processes using FCFS and SJF scheduling.
- Calculate the turnaround time of each process for FCFS scheduling algorithm as per part Calculation of part A?
- Calculate the waiting time of each process for SJF scheduling algorithm as per calculation of PartA?

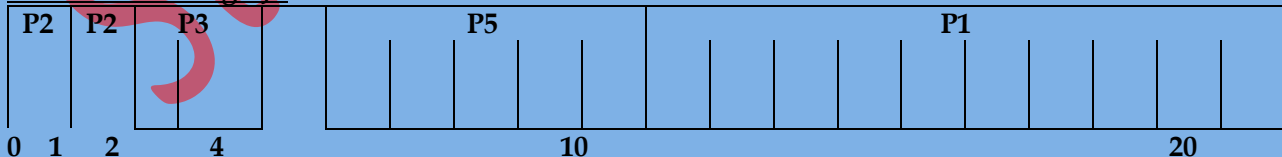
### Solution (A):

Process	Arrival time	CPU burst time(milliseconds)
P1	0	10
P2	0	1
P3	0	2
P4	0	1
P5	0	5

### Gantt Chart using FCFS



### Gantt Chart using SJF



### Solution (B):

TURN AROUND TIME OF EACH PROCESS FOR FCFS SCHEDULING ALGORITHM

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Process	Arrival Time (AT) (milliseconds)	CPU Burst Time (BT) (milliseconds)	Completion Time (CT) (milliseconds)	Turn Around time TAT = CT-AT (milliseconds)
P1	0	10	10	$10 - 0 = 10$
P2	0	1	11	$11 - 0 = 11$
P3	0	2	13	$13 - 0 = 13$
P4	0	1	14	$14 - 0 = 14$
P5	0	5	19	$19 - 0 = 19$

Solution (C):

WAITING TIME OF EACH PROCESS FOR SJF SCHEDULING ALGORITHM

Processes	Arrival Time (AT) (Millisecond)	CPU Burst Time (BT) (Milliseconds)	Completion Time (CT) (Milliseconds)	Turnaround Time TAT=CT-AT (milliseconds)	Waiting Time WT=TAT-BT (milliseconds)
P1	0	10	19	$19 - 0 = 19$	$19 - 10 = 9$
P2	0	1	1	$1 - 0 = 1$	$1 - 1 = 0$
P3	0	2	4	$4 - 0 = 4$	$4 - 2 = 2$
P4	0	1	2	$2 - 0 = 2$	$2 - 1 = 1$
P5	0	5	9	$9 - 0 = 9$	$9 - 5 = 4$