



6(a) Consider the following set of processes that arrive at time in order listed below with the length of the CPU burst given in milliseconds:

Process	Arrival Time	Burst Time
P1	2	6
P2	5	4
P3	1	8
P4	0	5
P5	4	4

- (i) Draw a Gantt chart to represent these set of processes using SJF  
 (ii) Calculate the Average Waiting time and Average Turnaround time for the above mentioned algorithms in question 6a(i) above. **(5mks)**

(b) Consider the following set of processes, with the length of the CPU burst given in milliseconds, we assume that a lower value means higher Priority.

Process	Arrival Time	Burst Time	Priority
P0	0	8	5
P1	1	6	3
P2	3	5	2
P3	5	4	0

- (i) Find the Average Waiting Time and Average Turnaround Time using Non-preemptive priority scheduling. **(5mks)**  
 (c) If we use a time quantum of 4 milliseconds, calculate average waiting time and average turnaround time for these set of processes using Round Robbin algorithm in question 6(b) above. **(Note: Round Robbin does not use Priority). (5mks)**

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