Week _____ Student Name:_____ ID: _____

Consider a set of processes, which arrive at a system as follows:-

Process Name	**Arrival Time**	**Burst/ Service time** **(amount of time it needs to complete its processing)**
P1	0	4
P2	2	1
P3	3	6
P4	8	2
P5	9	5
P6	12	2

For each of the scheduling algorithms

- Shortest Remaining Process First
- Round Robin (burst 2)

Answer the following questions (for each algorithm!):

1. Show the order in which the processes would be selected for execution

2. Calculate the average waiting time for processes, for each algorithm.

3. Calculate the average turnaround time for processes, for each algorithm.

The following guidelines will help you to get the right answer for each of the algorithms below.

- Mark on each grid the time at which the processes arrive at the system. (see ‘A’ in the grid).
- Processes cannot start executing before they arrive at the system so in each row of the grid you will never have any shaded cells before the ‘A’.
- Only one process can be executing at a time. So only one cell in each column will be shaded.
- As far as possible the system should never be idle. So, avoid empty columns.

(1) Shortest Remaining Process First

Time -> **0**	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
P1 A																				
P2		A																		
P3																				
P4																				
P5																				
P6																				

Average Turnaround time:

Average Response time:

(2) Round Robin (burst 2)

Time -> **0**	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
P1																				
P2																				
P3																				
P4																				
P5																				
P6																				

Average Turnaround time:

Average Response time: