1. The SJF CPU scheduling policy preempts an executing process. Using the SJF policy, construct a Gantt chart and compute the average waiting time and average response time for the 4 processes tabulated below:

**A**

|  |  |  |
| --- | --- | --- |
| **Process** | **Burst Time** | **Arrival Time** |
| P1 | 7 | 0.0 |
| P2 | 3 | 2.0 |
| P3 | 3 | 5.0 |
| P4 | 2 | 5.0 |

1. Using the RR policy with a time quantum of 40 time units, construct a Gantt chart and compute the average waiting time for the 5 processes tabulated below:

**B**

|  |  |  |
| --- | --- | --- |
| **Process** | **Burst Time** | **Arrival Time** |
| P1 | 125 | 0 |
| P2 | 112 | 150 |
| P3 | 56 | 200 |
| P4 | 148 | 300 |
| P5 | 115 | 380 |