**6.16**

FCFS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P1 | P2 | P3 | P4 | P5 |

2 3 11 15 20

Turnaround: P1: 2secs P2: 3secs P3: 11secs P4: 15secs P5: 20secs

Waiting: P1: 0secs P2: 2secs P3: 3secs P4: 11secs P5: 15secs

Average Waiting Time: 6.2secs

SJF

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P2 | P1 | P4 | P5 | P3 |

1 3 7 12 20

Turnaround: P1: 3secs P2: 1secs P3: 20secs P4: 7secs P5: 12secs

Waiting: P1: 1secs P2: 0secs P3: 12secs P4: 3secs P5: 7secs

Average Waiting Time: 4.6secs

Non-preemptive Priority

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P3 | P5 | P1 | P4 | P2 |

8 13 15 19 20

Turnaround: P1: 15secs P2: 20secs P3: 8secs P4: 19secs P5: 13secs

Waiting: P1: 13secs P2: 19secs P3: 0secs P4: 15secs P5: 8secs

Average Waiting Time: 9.6secs

RR (Quantum = 2)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P1 | P1 | P2 | P3 | P3 | P4 | P4 | P5 | P5 | P3 | P3 | P4 | P4 | P5 | P5 | P3 | P3 | P5 | P3 | P3 |

5 10 15 20

Turnaround: P1: 2secs P2: 3secs P3: 20secs P4: 13secs P5: 18secs

Waiting: P1: 0secs P2: 2secs P3: 10secs P4: 7secs P5: 12secs

Average Waiting Time: 6.6secs

Algorithm with Minimal Wait Time: SJF