1.

* FCFS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proceso | Hora de llegada | Duración | Tiempo de espera | Tiempo de Finalización | Media |
| T1 | 0 | 9 | 0 | 8 | (0+5+7)/3=4 |
| T2 | 3 | 5 | 5 | 13 |
| T3 | 8 | 1 | 7 | 14 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P1 | X | X | X | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |
| P2 |  |  |  |  |  |  |  |  |  | X | X | X | X | X |  |  |  |  |  |
| P3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |

* SJF (SPN)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proceso | Hora de llegada | Duración | Tiempo de espera | Tiempo de Finalización | Media |
| T1 | 0 | 9 | 1 | 9 | (1+9+7)/3=5.6 |
| T2 | 3 | 5 | 9 | 14 |
| T3 | 8 | 1 | 7 | 8 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P1 | X | X | X | X | X | X | X | X |  | X |  |  |  |  |  |  |  |  |  |
| P2 |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X |  |  |  |  |
| P3 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |

* SRTF

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proceso | Hora de llegada | Duración | Tiempo de espera | Tiempo de Finalización | Media |
| T1 | 0 | 9 | 0 | 8 | (0+9+8)/3=5.6 |
| T2 | 3 | 5 | 9 | 14 |
| T3 | 8 | 1 | 8 | 9 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P1 | X | X | X | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |
| P2 |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X |  |  |  |  |
| P3 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |

2.

1. 3 Unidades

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proceso | Hora de llegada | Duración | Tiempo de espera | Tiempo de Finalización | Media |
| T1 | 0 | 6 | 15 | 15 | 15+29+22+31+37\5=24,8 |
| T2 | 1 | 7 | 29 | 28 |
| T3 | 2 | 4 | 22 | 20 |
| T4 | 3 | 8 | 31 | 28 |
| T5 | 4 | 12 | 37 | 33 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| T1 | X | X | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 |  |  |  | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |
| T3 |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  | X | X |  |  |  |  |  |  |
| T5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  | X | X | X |  |  |  | X | X | X | X | X | X |

1. 8 Unidades

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proceso | Hora de llegada | Duración | Tiempo de espera | Tiempo de Finalización | Media |
| T1 | 0 | 6 | 6 | 6 | 6+12+15+22+33\5=17,6 |
| T2 | 1 | 7 | 12 | 13 |
| T3 | 2 | 4 | 15 | 17 |
| T4 | 3 | 8 | 22 | 25 |
| T5 | 4 | 12 | 33 | 37 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| T1 | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T2 |  |  |  |  |  |  | X | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T3 |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |
| T5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X | X | X | X | X | X | X | X |

1. 2 unidades

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Proceso | Hora de llegada | Duración | Tiempo de espera | Tiempo de Finalización | Media |
| T1 | 0 | 6 | 18 | 18 | (18+28+14+28+33)/5=22.2 |
| T2 | 1 | 7 | 28 | 29 |
| T3 | 2 | 4 | 14 | 16 |
| T4 | 3 | 8 | 28 | 31 |
| T5 | 4 | 12 | 33 | 37 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **T1** | **x** | **X** |  |  |  |  | **x** | **x** |  |  |  |  |  |  |  |  | **x** | **X** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **T2** |  |  | **x** | **x** |  |  |  |  |  |  |  |  | **x** | **x** |  |  |  |  |  |  |  | **x** | **X** |  |  |  |  | **x** | **X** |  |  |  |  |  |  |  |  |
| **T3** |  |  |  |  | **x** | **X** |  |  |  |  |  |  |  |  | **x** | **x** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **T4** |  |  |  |  |  |  |  |  | **x** | **X** |  |  |  |  |  |  |  |  | **x** | **x** |  |  |  | **x** | **x** |  |  |  |  | **x** | **X** |  |  |  |  |  |  |
| **T5** |  |  |  |  |  |  |  |  |  |  | **x** | **X** |  |  |  |  |  |  |  |  | **x** | **X** |  |  |  | **x** | **X** |  |  |  |  | **x** | **x** | **x** | **x** | **x** | **x** |

3.

a)

|  |  |  |  |
| --- | --- | --- | --- |
| PROCESOS | T. DE LLEGADA | T. DE EJECUCIÓN | PRIORIDAD |
| P1 | 0 | 5 | 2 |
| P2 | 2 | 3 | 3 |
| P3 | 3 | 4 | 1 |
| P4 | 5 | 10 | 3 |
| P5 | 7 | 6 | 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| P1 | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  |  |  |  |
| P3 |  |  |  |  |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X | X | X | X | X | X |
| P5 |  |  |  |  |  |  |  |  |  | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |

b)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Proceso | Hora de llegada | Duración | Tiempo de espera | Tiempo de Finalización |
| P1 | 0 | 5 | 4 | 9 |
| P2 | 2 | 3 | 13 | 16 |
| P3 | 3 | 4 | 0 | 4 |
| P4 | 5 | 10 | 13 | 23 |
| P5 | 7 | 6 | 2 | 8 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| P1 | X | X | X |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |  |  |  |  |  |
| P3 |  |  |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X | X | X | X | X | X |
| P5 |  |  |  |  |  |  |  |  |  | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |