

1 2 3 4 5 6 7 1

|                |                |                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| P <sub>1</sub> | P <sub>2</sub> | P <sub>3</sub> | P <sub>3</sub> | P <sub>4</sub> | P <sub>6</sub> | P <sub>6</sub> | P <sub>2</sub> | P <sub>3</sub> | P <sub>4</sub> |
| 0              | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 10             | 13             |

Average w.o.T =  $\frac{1+2+5+0+1+1+6+0}{6}$

$\frac{24}{6} = 4$

FCFS)

| Process        | B.T | CT | TAT | w.T |
|----------------|-----|----|-----|-----|
| P <sub>1</sub> | 21  | 21 | //  | 0   |
| P <sub>2</sub> | 3   | 24 | //  | 21  |
| P <sub>3</sub> | 6   | 30 | //  | 24  |
| P <sub>4</sub> | 2   | 32 | //  | 30  |

|                |                |                |                |
|----------------|----------------|----------------|----------------|
| P <sub>1</sub> | P <sub>2</sub> | P <sub>3</sub> | P <sub>4</sub> |
|----------------|----------------|----------------|----------------|

(FCFS)

| Process        | AT | BT | CT  | TAT | WT  |
|----------------|----|----|-----|-----|-----|
| P <sub>1</sub> | 0  | 80 | 80  | 80  | 0   |
| P <sub>2</sub> | 1  | 20 | 100 | 99  | 79  |
| P <sub>3</sub> | 2  | 10 | 110 | 108 | 98  |
| P <sub>4</sub> | 3  | 20 | 130 | 127 | 107 |
| P <sub>5</sub> | 4  | 50 | 180 | 176 | 126 |

Gantt Chart

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| P <sub>1</sub> | P <sub>2</sub> | P <sub>3</sub> | P <sub>4</sub> | P <sub>5</sub> |
| 80             | 100            | 110            | 130            | 180            |

$$\text{Average Time} = \frac{0 + 79 + 98 + 107 + 126}{5}$$

$$= \frac{410}{5} = 82 \text{ Ans}$$

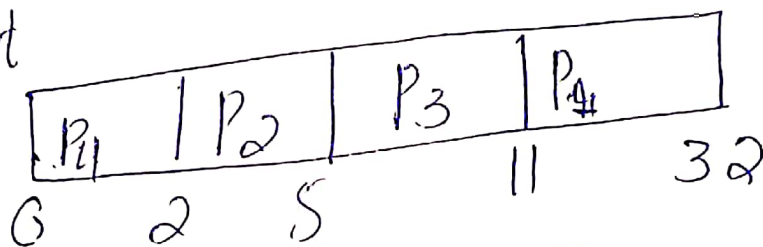
(SJF)

| Process        | AT | BT | CT | TAT | WT | RT |
|----------------|----|----|----|-----|----|----|
| P <sub>1</sub> | 6  | 3  | 23 | 17  | 14 | 14 |
| P <sub>2</sub> | 5  | 2  | 20 | 15  | 13 | 13 |
| P <sub>3</sub> | 1  | 5  | 18 | 8   | 3  | 3  |
| P <sub>4</sub> | 0  | 4  | 10 | 4   | 0  | 0  |
| P <sub>5</sub> | 2  | 1  | 9  | 8   | 7  | 7  |
| n/a            | 3  | 8  | 4  | 5   |    |    |

(SJF)

| Process ID     | B.T | CT | WT |
|----------------|-----|----|----|
| P <sub>1</sub> | 21  | 32 | 11 |
| P <sub>2</sub> | 3   | 5  | 2  |
| P <sub>3</sub> | 6   | 11 | 5  |
| P <sub>4</sub> | 2   | 2  | 0  |

Gantt Chart

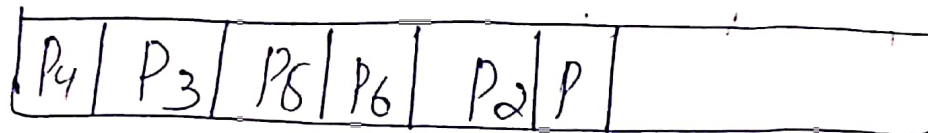


$$\text{Average WT} = \frac{11 + 2 + 5 + 0}{4} = 4.5 \text{ Ans}$$

(SRTF)

| P.ID           | AT | B.T | CT | TAT | WT |
|----------------|----|-----|----|-----|----|
| P <sub>1</sub> | 0  | 8   | 20 | 20  | 12 |
| P <sub>2</sub> | 1  | 4   | 10 | 9   | 5  |
| P <sub>3</sub> | 2  | 2   | 4  | 2   | 0  |
| P <sub>4</sub> | 3  | 1   | 5  | 2   | 1  |
| P <sub>5</sub> | 4  | 3   | 13 | 9   | 6  |
| P <sub>6</sub> | 5  | 2   | 7  | 2   | 0  |

Gant Chart :-

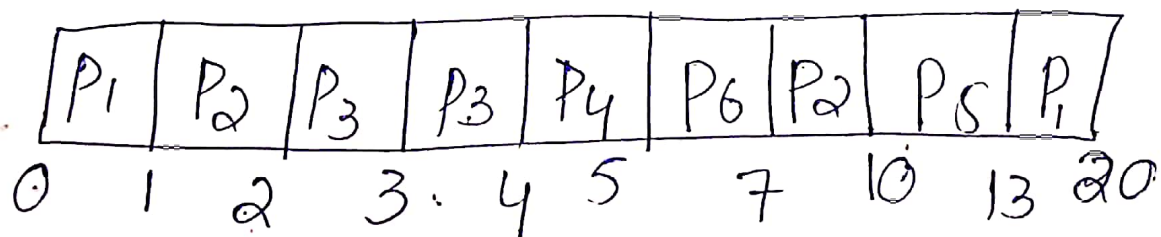


4 9 10 18 20 23

(SRTF)

| Process        | AT | BT                          | CT | TAT | WT | RT |
|----------------|----|-----------------------------|----|-----|----|----|
| P <sub>1</sub> | 0  | <del>8</del> 7              | 20 | 20  | 12 | 0  |
| P <sub>2</sub> | 1  | <del>4</del> <del>3</del>   | 10 | 9   | 5  | 0  |
| P <sub>3</sub> | 2  | <del>2</del> <del>1</del> 0 | 4  | 2   | 0  | 0  |
| P <sub>4</sub> | 3  | <del>1</del> 0              | 5  | 2   | 1  | 0  |
| P <sub>5</sub> | 4  | 3                           | 13 | 9   | 6  | 1  |
| P <sub>6</sub> | 5  | <del>2</del> 1              | 7  | 2   | 0  | 6  |

Gant Chart



CFS)

| AT | BT | CT  | TAT | WT  |
|----|----|-----|-----|-----|
| 0  | 80 | 80  | 80  | 0   |
| 1  | 20 | 100 | 99  | 79  |
| 2  | 10 | 110 | 108 | 98  |
| 3  | 20 | 130 | 127 | 107 |
| 4  | 50 | 180 | 176 | 126 |

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| P <sub>1</sub> | P <sub>2</sub> | P <sub>3</sub> | P <sub>4</sub> | P <sub>5</sub> |
|----------------|----------------|----------------|----------------|----------------|
|----------------|----------------|----------------|----------------|----------------|

80 100 110 130 180

$$\text{ave time} = \frac{0 + 79 + 98 + 107 + 126}{5}$$

$$= \frac{410}{5} = 82 \text{ Ans}$$

F)

| AT | BT | CT | TAT | WT | R.T |
|----|----|----|-----|----|-----|
| 6  | 3  | 23 | 17  | 14 | 14  |
| 5  | 2  | 20 | 15  | 13 | 13  |
| 1  | 5  | 18 | 8   | 3  | 3   |
| 0  | 4  | 10 | 4   | 0  | 0   |
| 2  | 1  | 9  | 8   | 7  | 7   |
| 3  | 8  | 4  | 5   |    |     |