a) Preemptive

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

0 1 4 5 7 12 21

+ Thời gian đợi trung bình: (0 + 11 + 0 + 3 + 0 + 1 + 3) / 5 = 3.6

+ Thời gian lưu lại trong hệ thống:

b) RR: Quatum time = 2

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

0 2 4 6 8 9 11 12 14 16 18 19 21

+ Thời gian đợi trung bình: (11 + 8 + 2 + 5 + 10) / 5 = 7.2

+ Thời gian hoàn thành trung bình: (21 + 11 + 4 + 6 + 15) / 5 = 11.4

c) Preemptive Priority

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

0 1 2 4 6 7 16 21

+ Thời gian chờ trung bình: (6 + 2 + 0 + 3 + 12) / 5 = 4.6

+ Thời gian hoàn thành trung bình: (16 + 5 + 2 + 4 + 17) / 5 = 8.8