

1.)

Run	1	2	3	4	5
Q	1	2	4	8	16
Acc	1	3	7	15	31

2.)

50/8	150/4	300/2	85
300/8	150/4	85/2	50

A: 278,75

B: 167,5

B will be scheduled first.

3.)

1.

1.1. CPU bound processes spend the majority of their time using the CPU, like doing calculations.

1.2. I/O bound processes would be for instance something like reading data from a file.

2. Because CPU bound processes need high quanta and I/O bound processes need low quanta for it to be as effective as possible.

4.)

$$35/50 + 20/100 + 10/200 + x/250 \leq 1$$

$$\Rightarrow x = 12,5 \text{ ms}$$