

4.4

(1)  $T = 2.1ns$

(2)  $S = \frac{T_{all}}{T} = \frac{7}{2.1} = 3.33$

(3) 设有  $n$  级流水线, 则每个阶段时间为  $T = \frac{7}{n} + 0.1$   $n \rightarrow \infty$   $T \rightarrow 0.1$

$\therefore S_{max} = \lim_{n \rightarrow \infty} \frac{T_{all}}{T} = \frac{7}{0.1} = 70$