$$\frac{\dot{c}}{c} = \frac{2lt}{0} - \frac{1}{0}$$

$$\dot{c}(t) = \frac{2lt}{0} - \frac{1}{0} c(t)$$

$$\dot{c}(t) - \frac{2lt}{0} - \frac{1}{0} c(t)$$

$$\dot{c}(t) = \frac{1}{0} c(t)$$

 $c(t) - 2t^{1-1} c(t) = 0$ c(t) = 0 c(t) = 0 c(t) = 0 c(t) = 0 c(t) = 0

Using tuminal condition,

2 = ((10)) = Co e o (20)-8)dx

2CS)= 0.05 + 0.01 t $S(g_2(s)-f)ds = S(o \cdot o 2 + o \cdot o 1 \leq)ds$ = 0.02(10) + 0.01(100) = 0.7