Ch21htech11027 Vatsal shingula MTZ N x axis => 0-5=1 unit yaxis => 0.05= unit 2 (0,1,0,5) 0,2 0.3 0 =MAARK"= vutsal Shingala

ch2/btech11027

MT 2

For first line 9=0 N=Poc

given t=1.68h

W = 7 Kg

1.68 = W5 0, 1 dx

1.68=7 x 1 pm (0.1 0.03)

P=5.01

so eqn of 1st line

N=5,01 X 20,5 X

at x=01 & N=05

egn of 2nd line N=25x-Z

So, time for daying from Xi=0.35 to \$ =0.01

 $t = \omega_s \left(\frac{x_i - x_i}{x_i} \right) + \omega_x \int_{x_i}^{x_i} \frac{dx}{250x - 2} + \frac{\omega_s}{\alpha} \int_{x_i}^{x_i} \frac{dx}{50x}$

= 7 (0.35) - 0.18) + $\frac{7}{2}$ em ($\frac{2.5 \times 0.018 - 2}{25 \times 0.1 - 2}$) + $\frac{7}{5}$ em ($\frac{0.5}{6.05}$)

= 0.476 + 0.45+3-22

= U,15 hg

-. time for doziny = 4.15 hr