0,3

And the second

1200

100

Mark State of 12

and the state of

Applying 2-transformation on both sides

$$y(0) = n^2(0) = 0$$

AMEY MAHENDRA THAKUR 110107589 $-m_{5}-m-1=0$ Roots = m, 2 = 1 ± 1 (1)2-4(1)(1) $m, 2 = \frac{1}{2} + \sqrt{5}$ of = 1 + 15 7(2)= (2-x) (2-B) where & = 1 = 15/2 B 2 (1 = J3/2 2-2-8 a (2-8) + b (2-4) =). 1 = rd - 5d + 9p - 9

-400

andra.

a + b = 1 $a = a^{2} - b\alpha = 1$ $a = a^{2} - b\alpha = 1$

 $y(2) = a\left(\frac{2}{2-\mu}\right) + b\left(\frac{3}{2-\mu}\right)$

Apply inverse transform

y(k) = a (x) k + b (p) k

x, (*) = y(x)

x, (x) = 4 - px

22 (k) = y (k+1)

122 (K) = xk+1 - pk+1

MAHENDRA THAKOR 110107589 AMEY where which