

# SNS COLLEGE OF ENGINEERING Coimbatore - 641 107



#### TOPIC 9: Initial Value and Final value Theorem

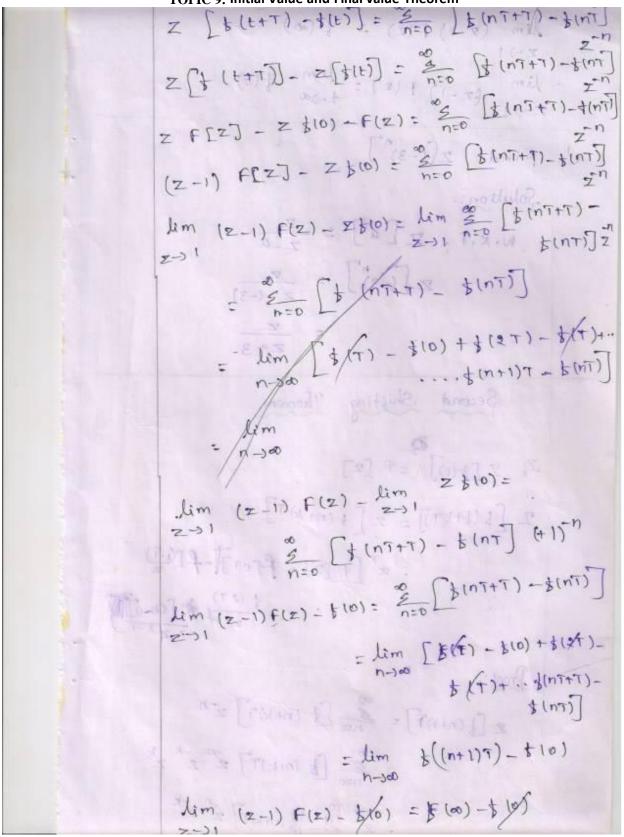
TOPIC 9: Initial Value and Final value Theorem
Initial value Theorem  [ ] [ ] [ ] [ ] [ ] [ ] [ ] Then
(m=m \$10) = lim F(x)
Proof: Given, $F(z) = Z$ $f(t) = \sum_{n=0}^{\infty} f(n\tau)z^n$ $F(z) = F(0.7)z^n + F(1.7)z^{-1} + F(2.7).z^{-1}$
$\lim_{z \to \infty} F[2] = \lim_{z \to \infty} \int_{z}^{2} f(0) + \frac{1}{2} \int_{z}^{2} f(0) + $
lim F[z] = 11 (0) 2)7 = [0) F7 5
Final Value Theorem (*1)
Proof: = (016 - (216) = [1041]] = [1041]] =



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