Hova ten: Le Thanh Han MSSV ". 2019 1813 Moilar: 124649 Ten man: Ly thryer dan khuen turent tuch Nlon: 1 STT: 23 D.E.: 1 a) P, = G, G, G, P, = - G, Gq G3 LA= GAGZH6 L,= G, G, G, HS L3= 6, 6 4 63 HS D= 1-(L1+L2+L3)=1-G1G2H6-G1G2G3H5+G1G4G3H 1 = 1 A Az = 1 =>  $G(5) = \frac{1}{100} \cdot (G_1 G_2 G_3 - G_1 G_4 G_3)$ = G16, 63-616463 1- G162H6-G162G3H5 +616463H5 D 5(5+2)(5+3) 1-4K-4K 5(5+2)(5+3)(1-8K)

TV= CVC5HC Hova ten: Le Thous Hai MSSV : 20191813 ma ldg: 124649 1-616 ten mon: Leg tluger den pluen tugel duch 5TT: 23 Pé: 1 b) thay K= 23 G3-6 GVC.  $C-(5) = \frac{46}{-5(5+2)(5+3)/2.183}$ - G 1C  $h(t) = L^{-1} \left\{ \frac{46}{-183 s^2 (s+z)(s+3)} \right\}$ (5+3)  $=\frac{461}{183}\left\{\frac{1}{5^{2}(5+2)}-\frac{1}{5^{2}(5+3)}\right\}$ 2)(5+  $= -\frac{46}{183} \left\{ -\frac{1}{5^2 \left( \frac{5}{2} + 1 \right)} - \frac{\frac{1}{3}}{5^2 \left( \frac{5}{2} + 1 \right)} \right\}$  $= -\frac{46}{182} \cdot \left\{ \frac{1}{2} \left[ t - \frac{1}{2} \left( 1 - e^{-2t} \right) \right] - \frac{1}{3} \left[ t - \frac{1}{2} \left( 1 - e^{-3t} \right) \right] \right\}$  $= -\frac{46}{182} \left[ \frac{1}{6} t - \frac{1}{4} + \frac{e^{-2t}}{4} + \frac{1}{9} - \frac{e^{-3t}}{a} \right]$ c) Tac

 $G_{2} = \frac{\alpha}{s(\Lambda + Ts)}$   $G_{2}(Jw) = \frac{\alpha}{Jw(\Lambda + TJw)} = \frac{\alpha}{Jw - Tw^{2}}$   $= \frac{\alpha(M+TJw)}{w(\Lambda + T^{2}u^{2})}$ 

Ho và yen: Le Though Hair MSSU: 2019 1813

Ma ldg: 124649

ten mon: Ly thuyệr đươn khrein tuyển tuền

Now : 1

ett:23

đe : 1

$$G_{2}(J\omega) = \frac{a + \omega}{\omega(n+t^{2}\omega^{2})} - \frac{\Lambda}{\omega(n+t^{2}\omega^{2})}$$

$$\omega = 0 = 0 = 0$$

$$\frac{\alpha + \omega}{\omega(n + t^2 \omega^2)} = -4$$

$$\frac{1}{\omega(n + t^2 \omega^2)} = 0$$

$$w = 1 = 0$$

$$\sqrt{1 + T^2 w^2}$$

$$\sqrt{1 + T^2 w^2} = -2 = 0$$

$$\sqrt{1 + T^2 w^2}$$

=) 
$$G_2 = \frac{-4}{5(1+5)}$$

=) 
$$\alpha = \frac{4}{-4}$$
  
=)  $G_2 = \frac{-4}{s(n+s)}$   
 $G_4 = H_6 = 0$   $G_1 G_2 G_3$   
=)  $G_1 G_2 G_3$   $G_2 G_3$   $G_3 G_4 G_5$   
=)  $G_1 G_2 G_3 M_4 G_5$  =  $G_2 M + g(s+3)(s+n)^2$   
 $G_1 G_2 G_3 G_4 G_5$   $G_2 G_5$   $G_3 G_4 G_5$   $G_4 G_5$   $G_5 G_6$   $G_6 G_6$   $G_6$   $G_6$