



(2)

- VI. Design digital Butterworth IIR filter using impulse invariant method to meet following specifications. Assume  $T=1\text{sec}$

$$\begin{aligned} 0.8 \leq H(\omega) \leq 1 & \quad 0 \leq \omega \leq 0.2\pi \\ H(\omega) \leq 0.2 & \quad 0.6\pi \leq \omega \leq \pi \end{aligned}$$

(10)

- VII. (a) What are the various addressing modes used in the TMS320C5X processor?  
(b) What are the applications of multirate system?

(2x5)

x-x-x