



Chitrangada

MAEER's MIT

Q.6)

$$H(z) = 1 + 2z^{-1} - 3z^{-2} - 4z^{-3} + 5z^{-4}$$

FIR Filter - Direct form

~~$$H(z) = X(z) + 2z^{-1}$$~~

$$H(z) = \frac{Y(z)}{X(z)}$$

$$\therefore Y(z) = X(z)(1 + 2z^{-1} - 3z^{-2} - 4z^{-3} + 5z^{-4})$$

$$\therefore Y(z) = X(z) + 2X(z)z^{-1} - 3X(z)z^{-2} - 4X(z)z^{-3} + 5X(z)z^{-4}$$

