

19

MONDAY

DECEMBER

354-012 • wk. 52

2016

Appointment / Meeting

WEEK - 1 / PROBLEM - 6

09:00

Direct form realization:-

10:00

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

11:00

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

12:00

13:00

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

14:00

Inverse Z-transform.

15:00

$$\Rightarrow \overset{\text{s/p}}{y(n)} = \overset{\text{i/p}}{x(n)} + 2x(n-1) - 3x(n-2) - 4x(n-3) + 5x(n-4)$$

16:00

17:00

18:00

19:00

20:00