

Satyam.

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Calculations:-

$$x[n] = [-5, -3, 4, 6, 2, -3, 8, -7, -1, 4, -6, 2]$$

We know that, for decimation

$$y[n] = x[2n]$$

$$y[0] = x[2 \times 0] = x[0] = -5$$

$$y[1] = x[2 \times 1] = x[2] = 4$$

$$y[2] = x[2 \times 2] = x[4] = 2$$

$$y[3] = x[2 \times 3] = x[6] = 8$$

$$y[4] = x[2 \times 4] = x[8] = -1$$

$$y[5] = x[2 \times 5] = x[10] = -6$$

Decimated sequence is

$$\therefore y[n] = [-5, 4, 2, 8, -1, -6]$$