Classwork 21 11/11/2024 Name of the Studento PA24 VAH CPE381 Instanctore Rahul Bladam? lotal Marks: 10 points Q1. 2-transform of the sequence Compute the given by 0, n < 0 (5 Points) X [N]= 3, n=1 4, n=2 5, n=3 0, n>3Solution Z-forns from of a sequence X[n] is given by $\chi(z) = \sum_{n=-\infty}^{\infty} z [n] z^{-n}$ - 3. Z + 4z - 2 + 5 Z - 3 Q2. Find the Z-tomstoon of discrete impulse function 8[n]. (5 points) $\delta(n) = \begin{cases} 1 & n = 0 \\ 0, otherwise \end{cases}$

Hence its z-transform $D(2) = 1.2^{-0} = 1$