

Discrete Assignment

EE1205 Signals and Systems

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EE23BTECH11049

Question 11.9.1.2: Write the first five terms of the sequence whose terms are represented by $a_n = \frac{n}{n+1}$

Solution: Given the terms of the sequence are $a_n = \frac{n}{n+1}$ where $n = 1, 2, 3, 4, \dots$

Now

$$a_1 = \frac{1}{2} \quad (1)$$

$$a_2 = \frac{2}{3} \quad (2)$$

$$a_3 = \frac{3}{4} \quad (3)$$

$$a_4 = \frac{4}{5} \quad (4)$$

$$a_5 = \frac{5}{6} \quad (5)$$