Birla Institute of Technology Mesra
Subject: Discrete Mathematics (Code: MA205)

1. Write the recurrence relations and initial points of

   (i) Padovan sequence.

   (ii) Lucas sequence.

   (iii) Pell sequence.

   (iv) Pascal's triangle for binomial coefficients $\binom{n}{k}$.

   (v) Ackermann Numbers.

2. Find the sequence of numbers for the following recurrence relations

   (i) $a_n = (2/3)a_{n-1}$, $a_0 = 6$.

   (ii) $a_n + 2a_{n-1} - 4 = 0$; $a_0 = 0$.

   (iii) $a_n - 2a_{n-1} + 5a_{n-2} = 0$, $a_0 = 2, a_1 = 3$.

   (iv) $a_n = 5a_{n-1} - 6a_{n-2} + 2$, $a_0 = 1, a_1 = 2$.

   (v) $a_n = (n-1)(a_{n-1} + a_{n-2})$; $a_0 = 0, a_1 = 1$.

3. Consider the recurrence relation $a_n = 5a_{n-1} - 6a_{n-2}$.

   (i) What sequence do you get if the initial conditions are $a_0 = 1, a_1 = 2$?

   (ii) What sequence do you get if the initial conditions are $a_0 = 1, a_1 = 2$?

   (iii) What if $a_0 = 2$ and $a_1 = 5$?

4. Consider the recurrence relation $a_n = 6n^2 + 2n + a_{n-1}$, $a_1 = 8$. Let $a_m = 10k$. Find the value of α.

5. Find order, degree, linearity, and homogeneity of the following recurrence relations:

   (i) $a_n + 3a_{n-1} + 6a_{n-2} + 9a_{n-3} = 0$.

   (ii) $a_n + 3a_{n-1} + 6a_{n-2} + 9a_{n-3} = n - 1$.

   (iii) $a_n^4 + 2a_{n-1}^2 + 2a_{n-2} = 36$.

   (iv) $a_n^4 + 3a_{n-1}^2 + 6a_{n-2}^2 = 4a_{n-3} - 2^n + (-2)^n$.

6. Find the recurrence relations satisfying:

   (i) $a_n = 4 \times 5^n$.

   (ii) $a_n = A \cdot 3^n + B(-2)^n$.

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