Pune Vidyarthi Griha's
COLLEGE OF ENGINEERING, NASHIK – 4
COMPUTER ENGINEERING DEPARTMENT

Subject : FDS   **ASSIGNMENT NO – 01**   **Unit - I**

1.   Define and explain the following terms : (i) **Data** (ii) **Data structure**
                                      (iii)   **Flowchart**.

2. Define **algorithms** and explain its charactristics.

3. Explain the **divide and conquer strategy** with suitable example. Comment on its time

     complexity.

4. Explain the **Asymptotic notation** Big O, Omega and Theta with suitable example.

5. Explain **static and dynamic data structures** with examples.

6. Differentiate between **linear and non-linear data structure** with example.

7. Explain the **Greedy strategy** with suitable example. Comment on its time complexity.

8. Define and explain **ADT(Abstract Data Type).**

9.   State Analysis of programming constructs - Linear, Quadratic, Cubic, Logarithmic

10. Define and explain the following terms :   (a) Linear data structure
                                      (b) Non-linear data structure
                                      (c) Time complexity
                                      (d) Space complexity

****************** Best of Luck ******************

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