Module 1 (Question Bank)

1) Define algorithm? What are the Notations used? Write algorithm to compute GCD of two numbers using Euclid’s algorithm.

2) List the different problem Types and name at least one algorithm in each type.

3) Explain the concept of various asymptotic notations, with examples?

4) Suggest a general plan for analyzing the efficiency of non-recursive algorithm?

A) To find the maximum element in the array?

B) To find the key element in the given array using linear search?

5) Suggest a general plan for analyzing the efficiency of recursive algorithm?

A) To find the Factorial of a number?

B) Tower of honai.

6) Express the following f(n) using big oh.

A) f(n)=100n+5.

B)f(n)= 10n3+5

C) f(n) =6\*2n+n2

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