

Computer Algorithm

Tutorial No.-7 on Unit VI

1. Define the following
 - a. Absolute approximation algorithm
 - b. $f(n)$ - approximate algorithm
 - c. ϵ -approximation algorithm
 - d. Polynomial time approximation scheme.
 - e. Fully polynomial time approximation scheme.
2. What is absolute approximation? Give two examples of absolute approximation
Explain absolute approximation with example.
3. What is ϵ -approximation? Give two examples of ϵ -approximation.
Explain ϵ -approximation with example.
4. Explain different approximation schemes application to 0/1 knapsack problem.
5. Explain Polynomial time approximation scheme with example.
6. Explain Fully Polynomial time approximation scheme with example.
7. Explain probabilistically good algorithm with example.