

COMSATS University Islamabad, Attock Campus Department of Computer Science

Program: BAI

Assignment 2

Course: - Design and Analysis of Algorithms

Deadline: October 5, 2023. Marks: 10

1. In previous lecture we discussed the problem of n*n matrix multiplication using recursion. We concluded that the time complexity of the problem is $O(n^3)$. Using Strassen's algorithm show that this problem can be solved in less than $O(n^3)$. Give an example to prove your answer.

Your solution should be handwritten on A-4 paper in hard form. Sharing will lead to zero marks. You will present your solution in the class.