**Department of Computer Science & Engineering**

SIXTH SEMETER COMPUTER SCIENCE & ENGINEERING

Sub: Design & Analysis of Algorithm

**Assignment: Unit 5 and 6**

Q.1] Draw solution space tree for sum of sub-set problem. A = [5, 12, 8, 13, 7] and sum = 20. Draw variable and fixed size tuple trees.

Q.2] Give any two solutions of 10 Queen Problem

Q.3] Write two main characteristics of NP, NP-H and NP-C problem with real life example

Q.4] Justify P is **Sub-Set** of NP and condition when P=NP

Q.5] Demonstrate the use of reduction with suitable set of problems and comment on NP-H and NP-C of the selected set [problems from real life domain]

***Last Date of submission: 11th April 2015***

Submission: in hand written document