# Varendra University

Department of Computer Science and Engineering

5th Semester(14th Batch)Class Test 1(Summer-2018)

Course Code: CSE 225

**Course Title: Algorithms**

**Time: 40 minutes** **Set- A** **Marks: 10**

1. Given a set of positive integers{3,1,7,6,2} and a value sum 6, find out if there exist a subset in array whose sum is equal to 6 adopting Dynamic Approach. 4
2. Given a set of items with therir respective weights {2,3,3,4,6} and values {1,2,5,9,4}. Knapsack capacity = 10. Dynamically solve the problem using above cases for maximum profit. 4
3. Let A is a 5X4, B is a 4X6, C is a 6X3 and D is a 3X2 matrix. Find the Minimum number of multiplications that is required to multiply all 4 matrixes and the order of multiplication. 2

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**Time: 40 minutes** **Set- B** **Marks: 10**

1. Given a set of positive integers{3,1,7,6,2} and a value sum 11, find out if there exist a subset in array whose sum is equal to 6 adopting Dynamic Approach. 4
2. Find the LCS for given input Sequences “AGGTAB” and “GXTXAYB” . 4
3. Let A is a 5X4, B is a 4X6, C is a 6X3 and D is a 3X2 matrix. Find the Minimum number of multiplications that is required to multiply all 4 matrixes and the order of multiplication. 2

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