

COMSATS University Islamabad, Lahore Campus

Assignment #4 - SPRING 2019

Course Title:	Design and Analysis of Algorithms			Course Code:	CSC301	Credit Hours:	3	
Course Instructor:	Dr. Hasan Jamal			Programme Name:	BCS			
Semester:	5^{th}	Batch:	SP17	Section:	A & B	Date:	10/05/201	9
Deadline:	14/05/2019		Maximum Marks:		10			

Important Instructions / Guidelines:

- Handwritten strictly.
- Maximum three persons per group are allowed for submission.
- No late submission allowed

Question: [Marks: 10]

Apply the bottom-up dynamic programming algorithm to the following instance of the knapsack problem. The Weight capacity W is 6.

Item	Weight	Value
1	3	\$25
2	2	\$20
3	1	\$15
4	4	\$40
5	5	\$50