



Assignment #3 – 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:	16/04/2019	
Deadline:	19/04/2019				Maximum Marks:		10	

Important Instructions / Guidelines:

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

Question:

Marks [7 + 2 + 1 = 10]

For the following undirected, weighted graph, apply Prim's algorithm to find the minimum Spanning tree (MST) and the cost of the MST. Also list down the order in which the edges of the graph are selected. Show your working for all the intermediate steps.

