



COMSATS University Islamabad, Lahore Campus

Assignment # 3 – FALL 2020

Course Title:	Design and Analysis of Algorithms	Course Code:	CSC301	Credit Hours:	3(3,0)
Course Instructor:	Dr. Hasan Jamal	Programme Name:	BCS		
Semester:	Batch:	Section:	Date:	18/12/2020	
Deadline:	22/12/2020 before 11:30 AM		Maximum Marks:	10	
Name			Student ID		

Important Instructions / Guidelines:

- Submit the assignment on Google Classroom
- 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.

