Academic Task Number: 3

Course code: CAP538

Date of allotment: 17-07-2023

Course title: ALGORITHM DESIGN AND ANALYSIS

Date of submission: 21-07-2023

Maximum Marks: 30

Academic Task Type: CA (Set A)

Question Number	Question Statement	Course Outcome	Bloom's level	Marks per Question
Q1	Explain the concept of Dynamic Programming and Greedy Method. Give one Real world use case when Dynamic Programming is more efficient than Greedy method	CO4	L4: Analyzing	10
Q2	Explain minimum spanning tree Using Kruskal Algorithm	CO2	L3: Apply	10
Q3	Define recursion with one example of sum of first n natural no and draw state space tree of recursion.	CO1	L1: Understand	10