Student ID -

Name -

United International University (UIU) Dept. of Computer Science & Engineering (CSE) CSE 2217 Spring 2022

Total Marks: 10 Class Test 3

You have to answer here. No extra page will be provided.

- Suppose a country has the following coins available: {1, 6, 12, 25}.
 - (a) Use DP to form 13 taka using minimum number of coins. What are those coins?

[3+1]

(b) Show an example of an amount where the greedy strategy for the Coin-Change problem does not provide an optimal solution. [2]

2	Discuss how the problem of computing the Fibonacci sequence demonstrates overlapping subpro Also, discuss how dynamic programming helps optimizing the computation.	blems. [2]
3	Suppose that you have got a set of the following activities, with the given start and end times for Activity Selection problem: { [1, 7), [2, 5), [9, 15), [6, 9), [11, 15), [3, 6) } Find an optimal solution of the problem. Write your strategy in one sentence.	the [2]