

Kathmandu University  
Department of Computer Science and Engineering  
Second Internal May 2025

Level: (CE II/I )  
Course: COMP 202

Full Marks: 20

Time: 1 hrs

Attempt all the questions.

1. Explain the divide-and conquer strategy in algorithm design. Illustrate with suitable example of a problem which can be solved using this strategy. [2+4]
2. Define minimum spanning tree. Compare and contrast Prim's and Kruskal's algorithms. [2+3]
3. Describe Folding and Midsquare methods in hashing with suitable example. [4]
4. Explain the process of inserting and deleting nodes in a Binary Tree. Illustrate both operations with suitable examples. [5]