

Kathmandu University
Department of Computer Science and Engineering
First Internal
June 10, 2025

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

Full Marks: 20
Time: 1 hour

Attempt all the questions.

1. Define the term algorithm. List and briefly explain five key characteristics of a good algorithm.

[1+ 4 marks]

2. Convert the following infix expression to postfix expression using stack. Show the content of the stack in each step of the conversion process.

$T+(U*W)/((X+Y)*Z)$ [5 marks]

3. What is a queue data structure? Explain one major limitation of a linear queue and describe the remedy used to overcome this limitation

[2+3 marks]

4. Explain the implementation of a stack using a circular linked list.

[5 marks]