

Name: \_\_\_\_\_ Reg #: \_\_\_\_\_ Section: \_\_\_\_\_

## National University of Computer and Emerging Sciences, Lahore Campus

Course: Bioinformatics Course Code: CS4049

Program: BS(Computer Science) Semester: Spring 2025

Section: BCS-8B

Duration: 15 Minutes

Total Marks: 10

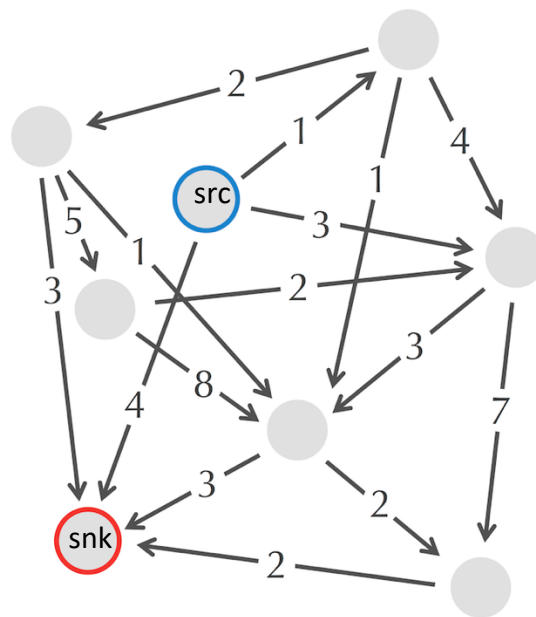
Paper Date: 25-Mar-2025

Page(s): 2

### Exam: Quiz 1

**Q1** Identify and compute the length of the longest path between the Source (src) and Sink (snk) nodes in the DAG shown below?

(2)



**Q2** Given two DNA sequences **ACGTCCTTCATT** and **GTCTCATG**, draw the alignment graph. Find the longest common subsequence and sequence alignment for the two sequences.

(8)

