

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-8A

Duration: 15 Minutes

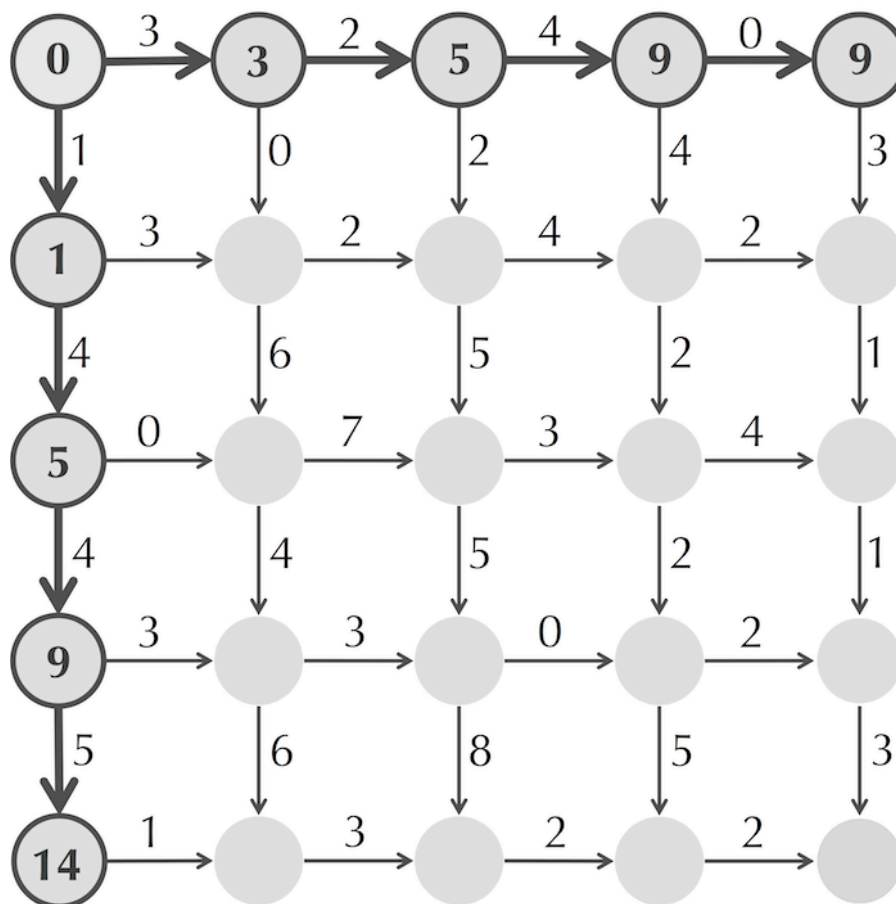
Total Marks: 10

Paper Date: 26-Mar-2025

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Exam: Quiz 1

Q1 Fill in the values of each node to find the shortest path between the Source and Sink nodes in the graph shown below. (2)



Q2 Given two DNA sequences **ACGGACT** and **ATCGGATCT**, draw the alignment graph. Find the longest common subsequence and sequence alignment for the two sequences. (8)

