National University

of Computer & Emerging Sciences Peshawar Campus

Student Name: _____   Roll No: _____

Program: BS(CS)
Semester: Spring-2021
Time Allowed: 02 hours
Course: CS218– Data Structures

Examination: Mid Term
Total Marks: 60   Weightage: 30
Date: 28th May, 2021
Instructor Name: Waqas Ali

NOTE: Attempt all questions.

Question No. 4

Attempt Time: 15 mins, **Submission Time:** 5 min

Marks: 8

In an array based implementation of a stack, is it a good idea to insert (push) and delete (pop) only at index 0 of the array? Provide arguments and use an example to demonstrate (diagrammatically) whether it is a good or a bad idea.