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. 3

Time: 20 mins, **Submission Time:** 5 min

Marks: 10

Can a queue be implemented using a cicular linked list? If yes, then provide implementation of a queue using a circular linked list (considering you already have the circular linked list class). If you think it cannot be implemented using a circular linked list then, state your arguments to prove your point.