



National University

of Computer & Emerging Sciences Peshawar Campus



Name: _____

Roll No: _____

Program: BS (CS)

Semester: Spring – 2021

Time Allowed: 1: 20 (hour: min)

Course: Parallel & Distributed Computing

Examination: Mid-Online

Total Marks: 60 Weightage: 30

Date:

Instructor: Muhammad Amin

NOTE: Attempt all questions. *All questions carry equal marks*

Q2. Instead of 2 computers, you now want to build the same system using 20 computers that you found in the “free computers” bin in University store. These computers are cheap, pretty unreliable, and all have varying speeds. Don’t worry about a computer crashing once a request was received, but now what mutual exclusion protocol would you use? Justify in terms of the number of messages, the latency, reliability, etc., compared to the protocol you picked for the previous Q1.