National University of Computer & Emerging Sciences, Karachi
Spring-2020 CS-Department
Mock Final Examination
11th June 2020, 03:00 PM – 04:00 PM

Course Code:CS-303	**Course Name: Software Engineering**
Instructor Name: Farrukh Hassan (farrukh.hassan@nu.edu.pk), Syeda Rubab Manzar (rubab.jaffar@nu.edu.pk), Romasha Khurshid (romasha.khurshid@nu.edu.pk)	
Student Roll No:	**Section:**

Instructions:

- Read each question completely before answering it. There are 4 **questions and 1 page**.
- All the answers must be solved according to the sequence number given in the paper.
- Be specific, to the point and no assumption should be made which contradict with any statement given in the question paper.
- Answers must be in your own words. Word for word answers from any source including book will result in reduction of marks. If any similarity is found between two students in any answer, both students will get 0 and the matter referred to DC.
- You have **1 hour** to solve and upload the exam to SLATE (or google classroom if your teacher has announced it). The instructions on solving and uploading were announced in the online examination policy.
- By uploading the solution, you are agreeing to the following honor pledge: This paper is my own work and I have not discussed anything related to the paper with anyone else.

Time: ~40 mins. **Max Marks: 12 Points**

[5 marks each]

Q1. Sommerville identifies three “key challenges” facing software engineering today: Heterogeneity, Scale, and Trust. Briefly describe what he means by the Heterogeneity challenge.

Q2. What are the three benefits of incremental development compared to the waterfall model?

Q3. Sommerville describes some attributes of a good software. Keeping those attributes in mind, explain how you would measure the "goodness" of your software engineering course project?

Q4. A case study related to an insulin pump control system is given in your book. Suggest which plan driven process model would be most suitable for this project. Justify your answer.

Best of Luck!!!!!