**NAME: ID: SET:**

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**BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY – Midterm Examination**

Program: Computer Systems Technology

Course Name: Applied Probability and Statistics for CST

Course Number: Math 3042

Date: February 15, 2022

Time Allotted: 60 min

Exam Pages: 5 (Including this page)

Total Marks: 25 (25% of this course)

Special Instructions:

1. You may use your notes, all materials on Learning Hub, R’s help file, and anything you find on the internet. **You may not communicate with any other humans during this exam.** That is: no online chatting, no posting to the Discord, no texting or emailing anyone else during the test, no posting to online message boards, and in general no live communication by any other means.
2. Part I is to be done “by hand” in this booklet. While you may use your computer (including R Studio) to help answer the questions, **your full solutions must be written**. For instance, if you use a function in R Studio to compute a value, copy that function and its output as part of your solution. **I will only be marking what I see on the page. Answer probability questions to at least 4 significant figures.**
3. Part II is to be completed in R Studio on your laptop. Every question in this section can be answered via a series of commands; that is, you do not need to write any scripts. Your **complete solutions** (**code, outputs, and any graphs**) to Part II must appear **in order, in a** **single** **pdf** document. This section is like your labs: your answers will be typed commands and copy/pasted output, rather than handwritten.
4. Submit Part II to the MIDTERM folder in the **lab** section of Learning Hub (the same way that you submitted your labs) by **2:35** **pm**. There will be a penalty for late submissions.
5. Hand in Part I (this booklet) to an invigilator before you leave the classroom. The exam will be collected at **2:35 pm**.