Name	ID	Section	1 Seat No	



Sirindhorn International Institute of Technology

	Thammasat University
m m	Final Examination: Semester 1 / 2019
Course Title:	ECS315 (Probability and Random Processes)
Instructor:	Asst. Prof. Dr.Prapun Suksompong
Date/Time:	December 9, 2019 / 09:00 - 12:00
provid	xamination has 10 pages. (The first page is this cover page and the last page es the Φ/Q tables). Do not detach any sheet from the exam. Do not remove the staple. tions of Examination:
	Open book Closed book Semi-Closed book (
	se instructions and the questions carefully. are not allowed to be out of the examination room during examination.

- Going to the restroom may result in score deduction.
- Turn off all communication devices and place them with other personal belongings in the area designated by the proctors or outside the
- Write your name, student ID, section, and seat number clearly in the spaces provided on the top of this sheet. Then, write your first name and the last three digits of your ID in the spaces provided on the top of each page of your examination paper, starting from page 2.
- The examination paper is not allowed to be taken out of the examination room. Violation will result in a zero (0) score for the examination.
- Unless instructed otherwise, write down all the steps that you have done to obtain your answers.
 - When applying formula(s), state clearly which formula(s) you are applying before plugging-in numerical values.
 - You may not get any credit even when your final answer is correct without showing how you get your answer.
 - Formula(s) not discussed in class can be used. However, derivation must also be provided.
 - - Problems that are labeled with "ENRPr" (Explanation is not required for this problem.)
 - Parts that are labeled with "ENRPa" (Explanation is not required for this part.)
 - These problems/parts are graded solely on your answers. There is no partial credit and it is not necessary to write down your explanation. Usually, spaces (boxes or cells in a table or rows of dashes) will be provided for your answers. "WACSP" stands for "write your answer(s) in the corresponding space(s) provided".
- > The back of each page will not be graded; it can be used for calculations of problems that do not require explanation.
- When not explicitly stated/defined, all notations and definitions follow ones given in lecture.
- Some points are reserved for accuracy of the answers and also for reducing answers into their simplest forms. Watch out for roundoff error. Unless specified otherwise, the error in your final answer should not exceed 0.1%.
- ➤ Points marked with * indicate challenging problems.
- Do not cheat. Do not panic. Allocate your time wisely.
- > Don't forget to submit your second online self-evaluation form by the end of today.