## Stochastic Processes, Quiz 1, 2024 Fall

## Solution and Grading

• Duration: 30 minutes	
• Weight: 7% of final grade	
· Closed material, No calculator	
• Name:	
• Student ID:	
• E-mail:	_ @seoultech.ac.kr

- Write legibly.
- $\bullet\,$  Justification is necessary unless stated otherwise.

Suppose  $X \sim exp(3)$ . Evaluate  $\mathbb{E}[min(X,5)]$ . [7pts]

•  $\mathbb{E}[min(X,5)] = \frac{1}{3}(1-e^{-15})$  (See the Lecture 2, page 4 for detailed procedure)

Difficulty: Easy

Grading Scheme: Only one minor error may earn 3pts. No partial credit if two or more errors are found.