Examination in Peking University

Semester 1 9 Jan 2026, 2-4pm

Infinity Categories: Final Examination

Total Duration: 120 mins

NUMBER OF QUESTIONS: ? TOTAL MARKS: 55

Instructions

- This is an open book, take-home examination, covering all topics presented during the course (except those indicated with "optional"). The exam questions will be released on the course WeChat group at 1.50pm.
- You may consult course notes, personal notes, and textbooks, including online notes. If you use any advanced result which is not covered in the course, you must provide a reference and a brief explanation to get credit.
- The use of internet forums, question-and-answer websites, and Large Language Model (LLM) tools like DeepSeek, ChatGPT, etc., is *strictly forbidden*.
  You are not allowed to communicate with any other person during the examination.
  Cheating, particularly copying of solutions provided by LLMs, will be dealt with seriously.
- Please indicate your name clearly on the first page, and start your solution to each question on a new page. At the end of the examination, you will be given 15 minutes of extra time to scan/compile your solutions and email it to guochuanthiang@bicmr.pku.edu.cn
- I will be contactable on the course WeChat group throughout the examination.

DO NOT COMMENCE WRITING UNTIL INSTRUCTED TO DO SO.