This test is closed book, closed notes. On each section of the exam there are three questions. You have one hour and 45 minutes to complete the exam. You may submit answers to only two of the three questions. If you try to submit answers to all three questions, an arbitrary one of your answers will be thrown away. If a question is not clear, ask the proctor.

We will be scanning your exams as part of our archiving. To facilitate this process we will expect you to adhere to the following guidelines:

- Use paper with borders (the department will provide these).
- Write your **CODE IN BOX, Subject Area, e.g. Compilers, Question Number, and Page number of your solution** on the top of each and every page.
- Use a separate page for each question.
- Keep your pages together with the question you are answering, if an answer uses multiple pages, please indicate the page number in the blank provided at the top of each page.
- Do not write outside the printed border of the page.
- Do not write on the back of the page.
- PLEASE DO NOT TURN IN YOUR STRATCH PAPER.

For core topics at least, your exam will be graded by two faculty members.