

University of California, Irvine
Department of Computer Science

SPRING EXAMINATIONS 2022

CS 146

Instructor: Wayne Hayes

Duration — 2 hours

Examination Aids: NO AIDS ALLOWED

Your NAME:

Your STUDENT NUMBER:

Total Marks: 114; Total Pages: 11

NOTE: Questions are printed on both sides of the sheet. Please ensure that you have all pages according to the number of pages above; **It is your responsibility to do so.** All questions must be answered in the space provided. **BE BRIEF**, especially in the “short answer” questions.

MARKING SCHEME: Blank answers receive 1/3 credit. In particular, you basically “start” with 1/3 of the marks for any question; once you start writing, incorrect or irrelevant statements decrease your grade (but never below 0), while correct and relevant ones increase it (but never above the maximum value). For questions that you leave blank (or equivalently, cross out or otherwise make it clear you’re not providing an answer), we’ll add up the total value of all questions (or partial questions) that you left blank, divide by 3, and add that to your final grade.

HINTS

— **READ EACH QUESTION CAREFULLY.**

- Write legibly. An unreadable answer receives no credit.
- Some of the questions are harder than others. If you can’t do one, skip it and return to it later.
- Some questions are worth more than others. Manage your time carefully. *Don’t waste your time answering more than what is asked.*
- If you can’t recall the name of a command or the letter for an option, make it up and say what it’s supposed to do. If it exists, you’ll probably get full credit.
- If there seems to be ambiguity in the question, state your assumptions and go from there. If your assumptions are reasonable and don’t trivialize the problem, you’ll probably get full credit.