

Computer Architecture I Mid-Term

Chinese Name: _____

Pinyin Name: _____

Student ID: _____

E-Mail ... @shanghaitech.edu.cn: _____

Question	Points	Score
1	1	
2	3	
3	10	
4	7	
5	6	
6	8	
7	4	
8	2	
9	9	
10	13	
11	21	
12	16	
Total:	100	

- This test contains 14 numbered pages, including the cover page, printed on both sides of the sheet.
- We will use gradescope for grading, so only answers filled in at the obvious places will be used.
- Use the provided blank paper for calculations and then copy your answer here.
- Please turn **off** all cell phones, smartwatches, and other mobile devices. Remove all hats and headphones. Put everything in your backpack. Place your backpacks, laptops and jackets out of reach.
- Unless told otherwise always assume a 32bit machine.
- The total estimated time is 120 minutes.

- You have 120 minutes to complete this exam. The exam is closed book; no computers, phones, or calculators are allowed. You may use two A4 pages (front and back) of handwritten notes in addition to the provided green sheet.
- There may be partial credit for incomplete answers; write as much of the solution as you can. We will deduct points if your solution is far more complicated than necessary. When we provide a blank, please fit your answer within the space provided.
- Do **NOT** start reading the questions/ open the exam until we tell you so!

1 1. First Task (worth one point): Fill in you name

Fill in your name and email on the front page and your ShanghaiTech email on top of every page (without @shanghaitech.edu.cn) (so write your email in total 14 times).