## Computer Architecture I Final Exam

Chinese Name:

Pinyin Name:

Student ID:

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

Question			Points	Score
	1		1	
	2		6	
	3		11	
	4		5	
	5		9	
	6		6	
	7		14	
	8		7	
	9		23	
	10	)	4	
-	11		8	
-	12	2	6	
Total:		al:	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. First Task (worth one point): Fill in you name

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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).