

CS 3710: ICS Final Exam, fall 2019

Name _____

You **MUST** write your e-mail ID on **EACH** page and bubble in your userid at the bottom of this first page. And put your name on the top of this page, too.

If you are still writing when “pens down” is called, your exam will be ripped up and not graded – even if you are still writing to fill in the bubble form. So please do that first. Sorry to have to be strict on this!

Other than bubbling in your userid at the bottom of this page, please do not write in the footer section of this page.

There are 8 pages to this exam. Once the exam starts, please make sure you have all the pages. Questions are worth different amounts of points.

If you do not bubble in this first page properly, you will not receive credit for the exam!

Answers for the short-answer questions should not exceed about 20 words; if your answer is too long (say, more than 30 words), you will get a zero for that question!

This exam is **CLOSED** text book, closed-notes, closed-calculator, closed-cell phone, closed-computer, closed-neighbor, etc. Questions are worth different amounts, so be sure to look over all the questions and plan your time accordingly. Please sign the honor pledge below.

*A crash reduces
Your expensive computer
To a simple stone.*

(the bubble footer is automatically inserted into this space)

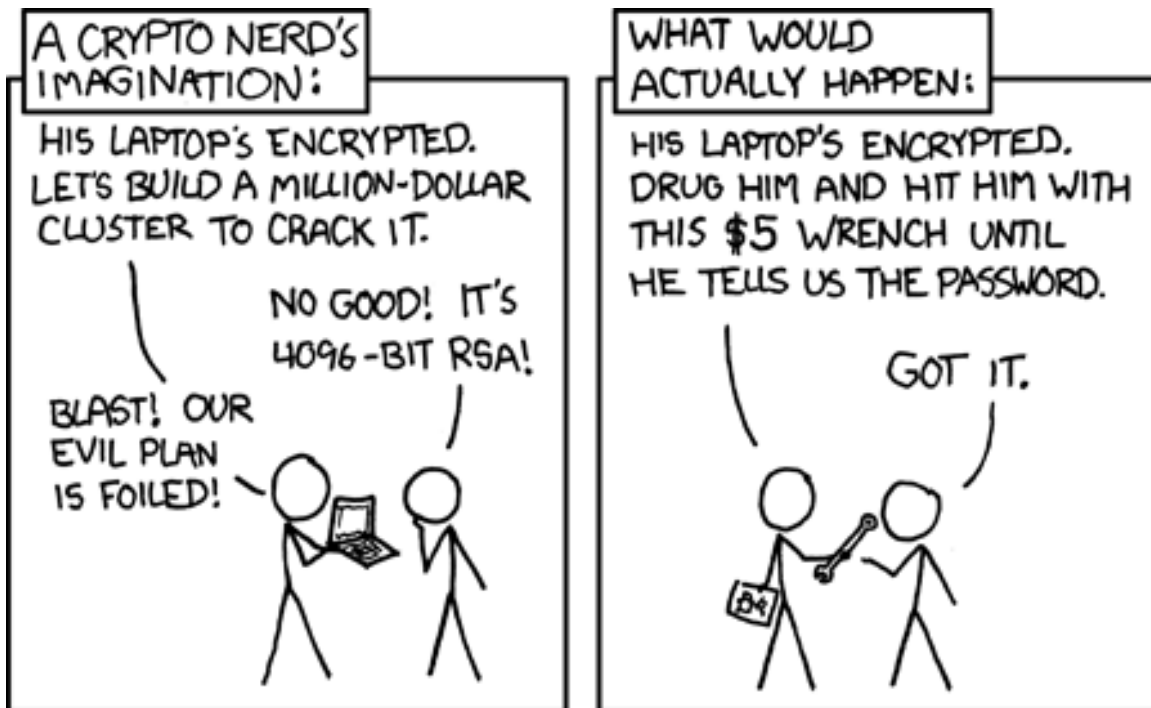
Page 7: True / False questions

This should go without saying, but you can only pick ONE of the answers. If it's not clear to us which answer you picked, you will not get points for that question. Each question below is worth 2 points.

SQL injection attacks can be solved by properly escaping the input	True	False
One-time pads can use multiple methods of encrypting the plaintext using the random pad	True	False
You should invest in Bitcoin	True	False
A compromised Tor internal node can be used to track some details about the information sent through it	True	False
Format string attacks against <code>printf()</code> are prevented by stack canaries	True	False
Properly implemented ALSR (Address space layout randomization) completely prevents buffer overflow attacks	True	False
The SYN flood type of denial of service attack uses very little bandwidth	True	False
Routing happens at the Transport level in the TCP/IP (or the OSI) model of networks	True	False
Sender anonymity has been proven to be possible with email remailers	True	False

Page 8: No questions here

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xkcd # 538