**Security Quiz**

Started: May 5 at 7:45pm

**Quiz Instructions**

This quiz is closed-book, closed everything.  No communication with any other student is allowed.  The rules of Stevens Honor- and Graduate Code of Conduct are in force.  The quiz is to last 15 minutes, and its total is 35 points.

Note: this is a timed quiz. You may check the remaining time you have at any point while taking the quiz by pressing the keyboard combination SHIFT, ALT, and T... Again: SHIFT, ALT, and T...

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**Question 110 pts**

Alice and Bob share a 256-bit key *K,* and they agree on using a hash function *H,*which has a 256-bit output.  Using only those, can Alice successfully encrypt a 3,000-byte message to Bob, which Bob will be able to decrypt?

Group of answer choices



True



False

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**Question 210 pts**

Alice and Bob share a key which no one else knows.   Alice is Bob's boss, and she has sent him  a request   which she has  encrypted with the key they share.  Later, Alice denied that she had ever sent this request.  Bob takes her to court and shows the judge the original message l and the  key key that he shared with Alice. He claims that Alice must have sent him this message because no one else knows they key. Alice confirms that it is indeed the key that they share with Bob but denies ever sending the message.

Will judge find Alice guilty?

Group of answer choices



True



False

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**Question 35 pts**

You have created a public/private key pair, and a CA has given you a certificate.  You must encrypt this certificate immediately and store it in a safe place.

Group of answer choices



True



False

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**Question 410 pts**

Alice's private key is*Apr*, and public key *Apu*.  Similarly, Bob's private key is*Bpr*, and public key *Bpu*.  Alice wants to send Bob a signed and confidential message *M.* Which of the following  quantities will she send?

Group of answer choices



Apr[Bpu(M)]



Apu[Bpr(M)]



Apr[Bpu(M)]



Bpr[Apu(M)]



Apu[Bpu(M)]

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