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**TO PASS** 80% or higher

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# Week 6 - Problem Set

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1. Recall that with symmetric ciphers it is possible to encrypt a 32-bit

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message and obtain a 32-bit ciphertext (e.g. with the one time pad or

with a nonce-based system). Can the same be done with a public-key

system?



Yes, when encrypting a short plaintext the output

of the public-key encryption algorithm can be truncated to the length

of the plaintext.



No, public-key systems with short ciphertexts

can never be secure.



Yes, the RSA-OAEP system can produce 32-bit ciphertexts.



It is possible and depends on the specifics of the

system.



**Correct**

An attacker can use the public key to build a