CSCI471/971 Modern Cryptography

Workshop

Question-1

Question 1. Please show that the following encryption scheme is not IND-CCA secure, where Enc is a secure blockcipher:

- 1.Choose a random IV.
- 2.Run W \leftarrow Enc(K, IV)
- 3.Compute C=W⊕ M
- 4.Output CT=(IV, C)

Question-2

Question 2. Please show that the following encryption scheme is not IND-CCA secure, where Enc is a secure blockcipher:

- 1.Choose a random IV.
- 2.Compute M'=IV⊕ M
- 3.Run C \leftarrow Enc(K, M')
- 4.Output CT=(IV, C)

END