Section: A, B, C

Leading University, Sylhet

Department of Computer Science and Engineering Mid-Term In Course Evaluation Summer-2021

Course Title: Computer Security and Cryptography Full Marks: 30 Answer any 3(Three) of the following questions (including question no 1 and 2) Time: 1 hour 30			
1.	a)	Implement Playfair Cipher to get the ciphertext. Here, plaintext and key is given. Plaintext = " i will miss leading university ", Key = " CSE ".	5
	b)	Apply Vernam Cipher for both the encryption and decryption process. Plaintext = " forty four love ", Key = " cse department "	5
2	a)	Decrypt the following ciphertext using Hill Cipher where the key is given. Ciphertext = " vegxfl ", key = CFJZ	6
	b)	Suppose you were given a key 'END' to codify the plaintext "Bangladesh" using VIGNERE CIPHER [table is not given]. Show the decryption process also to get back the plaintext again.	4
3	a)	How double transposition cipher works?	2
	b)	Differentiate between Symmetric Cryptography and Asymmetric Cryptography.	3
	c)	What do you mean by Secret Key Cryptography and Public Key Cryptography? How they are different from one another?	3
	d)	How Hash Functions are different from by Secret Key Cryptography and Public Key Cryptography?	2
4		What are the major threats to any data or information for which it needs cryptography?	3.5
	b)	Discuss the prime objectives of modern cryptography?	3.5
	c)	Discuss different types of Classical encryption techniques.	3