School of Computing Science and Engineering Department of Computer Application Mid Term Examination

Exam Date: 26 Sep 2023 Time: 90 Minutes

Marks: 50

Sem III - MSCS2310 - Cyber SecurityYour answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

1)	Describe Modulo Arithmetic operations and properties in detail.	K2 (2)
2)	Write the Euclidean Algorithm	K1 (3)
3)	Describe the differences between steganography and cryptography with examples.	K2 (4)
4)	Encrypt the following using play fair cipher using the keyword MONARCHY. Use X for blank spaces "SWARAJ IS MY BIRTH RIGHT".	K2 (6)
5)	Define attack and explain it in detail alongwith examples	K3 (6)
6)	Discuss Euler's theorem taking a suitable example.	K3 (9)
7)	Perform encryption and decryption using RSA algorithm for the following. p=3; q=11, e=7; M=5	K4 (8)
8)	Discuss about Public Key distribution and Symmetric-Key Distribution.	K4 (12)
OR		
	Discuss the Diffie-Hellman key exchange algorithm with its merits and demerits.	K4 (12)