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

Exam Date: 01 Oct 2023
Time : 90 Minutes
Marks : 50

Sem III - MCAE2421 - Ethical Hacking
Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary

1)	Describe the role of ethical hackers in identifying and mitigating security threats	K2 (2)
2)	List out any two types of password attacks used for password cracking.	K1 (3)
3)	Briefly discuss the purpose of DoS protection mechanisms?	K2 (4)
4)	Compare and contrast the characteristics and behaviors of worms, viruses, and Trojan horses.	K2 (6)
5)	Descuss concept of cryptology in the context of cryptography	K3 (6)
6)	Apply the principles of asymmetric key cryptography to encrypt and decrypt a message.	K3 (9)
7)	Analyze the vulnerabilities in Windows Login Password systems.	K4 (8)
8)	Analyze the cryptographic weaknesses in a given encryption algorithm	K4 (12)

OR

In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value q = 17 and primitive root = 5. If Alice's secret key is 4 and Bob's secret key is 6, what is the secret key they exchanged?	K4 (12)