Q. Code: 823232

Reg. No. | | | | | | | | | | | | | |

M.E/ M. TECH.DEGREE EXAMINATIONS, MAY 2023

Second Semester

CP22202-CYBER SECURITY TECHNIQUES

(Regulation2022)

TIME:3 HOURS **MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Students will be able to implement the cryptographic techniques to real time applications	**3**
CO 2	Students will be able to know fundamentals of cybercrimes and the cyber offenses	**1**
CO 3	Students will be able to realize the cyber threats, attacks, vulnerabilities and its defensive mechanism.	**2**
CO 4	Students will be able to understand the basic concepts of Ethical hacking and Penetration Testing.	**2**
CO 5	Students will be able to understand foot printing and different vulnerabilities in social networks	**2**

PART- A (20x2=40Marks)

(Answer all Questions)

		CO	RBT LEVEL
1.	Specify the basic task for defining a security service.	**1**	**3**
2.	List-out the types of attack in DES.	**1**	**1**
3.	Give the applications of Public Key Cryptosystems.	**1**	**2**
4.	Using Fermat's theorem, check whether 19 is prime or not? Consider a is 7.	**1**	**3**
5.	List out the different categories of cyber criminals.	**2**	**1**
6.	What is social engineering?	**2**	**2**
7.	Define mishing and Vishing.	**2**	**2**
8.	Define port number. Give its ICANN ranges.	**2**	**2**
9.	Compare DOS and DDOS.	**3**	**2**
10.	Analyze about the importance of spyware?	**3**	**4**
11.	How SQL injection could be identified.	**3**	**3**
12.	Name any four common types of cyber attacks	**3**	**1**
13.	Define malware.	**4**	**2**
14.	What is penetration testing?	**4**	**1**
15.	List some networking Attacks.	**4**	**1**
16.	Name the elements of network security.	**4**	**1**

17.	Compare Virus and Worm.	**5**	**2**	
18.	Justify the importance of Trojan Virus.	**5**	**3**	
19.	How will you do the google hacking?	**5**	**3**	
20.	Analyze the importance of using the Piggybagging.	**5**	**4**	

PART- B (5x 10=50Marks)

			Marks	CO	RBT LEVEL
21. (a)	With the neat sketch explain in detail about Elliptic Curve Cryptography.		**(10)**	**1**	**2**
	(OR)				
(b)	Perform encryption and Decryption using RSA algorithm for the following message 'I' with the relatively prime of 7 and 11 using public key7.		**(10)**	**1**	**2**
22. (a)	With neat sketch demonstrate global perspective of cybercrimes.		**(10)**	**2**	**4**
	(OR)				
(b)	Elaborate briefly about attack vectors along with example? Also explain the impact of cybercrime on cloud computing.		**(10)**	**2**	**4**
23. (a)	**(i)**	Examine in detail about the Email sniffing process.	**(5)**	**3**	**4**
	(ii)	Analyze the overall process of Password cracking.	**(5)**	**3**	**4**
	(OR)				
(b)	What are keyloggers? What are the different types of keyloggers? Explain.		**(10)**	**3**	**2**
24. (a)	Explain the threats through lost and stolen devices.		**(10)**	**4**	**2**
	(OR)				
(b)	Discuss in detail Hacking and List out the different types of Hacker.		**(10)**	**4**	**2**
25. (a)	Discuss in detail about web tools for Foot Printing.		**(10)**	**5**	**2**
	(OR)				
(b)	**(i)**	What are the different methods to detect computer virus?	**(5)**	**5**	**3**
	(ii)	Explain and evaluate the infection phase and attack phase in working of viruses.	**(5)**	**5**	**3**

PART- C (1x 10=10Marks)
(Q.No.26 is compulsory)

		Marks	CO	RBT LEVEL
26.	Examine and Analysis the Visa card Vulnerability that allowed for a bypass in payment limits.	**(10)**	**3**	**4**