Set No. 1

IV B.Tech II Semester Regular Examinations, April – 2023 CYBER SECURITY & CRYPTOGRAPHY

Time: 3 hours Answer any FIVE Questions Max. Mar			: 75			
ONE Question from Each unit All Questions Carry Equal Marks *****						
		UNIT I				
1	a)	Discuss the global perspective on cybercrimes.	[7]			
	b)	What is Cyber Crime? List the types of cybercriminals. (OR)	[8]			
2	a)	What is the difference between Hacker and cybercriminals? Explain with examples.	[7]			
	b)	Elaborate on different categories of cybercrimes	[8]			
		UNIT II				
3	a) b)	Differentiate between computer Virus and Worms with two examples each. Define Social Engineering. Describe the classification of Social	[7]			
	,	Engineering with examples.	[8]			
		(OR)				
4	a)	Write about Steganography with applications.	[7]			
	b)	Explain about Trojan Horses and Backdoors in detail with examples.	[8]			
		UNIT III				
5	a)	What are the common techniques which can be used for email				
		investigation?	[7]			
	b)	What are the three methods to preserve a digital evidence? Explain them. (OR)	[8]			
6	a)	Describe the process of IP Tracking.	[7]			
	b)	A friend sends an electronic Hallmark greeting card (e-card) to your work				
		email. You need to click on the attachment to see the card. What should you	FO1			
		do? List major risks associated with this scenario?	[8]			
		UNIT IV				
7	a)	Discuss in detail about Windows System Forensics.	[7]			
	b)	Explain various phases in computer forensics/digital forensics.	[8]			
0	-)	(OR)	[7]			
8	a) b)	Write short notes on Linux System Forensics. Explain in detail the forensic analysis of E-mail.	[7]			
	U)	Explain in detail the foreiste analysis of E-mail.	[8]			
		UNIT V				
9	a)	What are the limitations of Information Technology Act?	[7]			
	b)	What is the basis for the ITA 2000? Give its features.	[8]			
10		(OR) Explain the following terms according to IT Act 2000:				
10		i) Records as evidence				
		ii) Proof of electronic agreements				
		iii) Status of electronic.	[15]			

R19

Code No: **R194204G**

Set No. 2

IV B.Tech II Semester Regular Examinations, April – 2023 CYBER SECURITY & CRYPTOGRAPHY

Time: 3 hours Max. Ma			ks: 75	
		Answer any FIVE Questions		
		ONE Question from Each unit		
		All Questions Carry Equal Marks		

1	`	UNIT I	[7]	
1	a)	Explain about Vishing and Smishing in detail.	[7]	
	b)	Describe the trends in mobile credit card frauds in wireless computing. (OR)	[8]	
2	a)		[9]	
2	b)		[6]	
	U)	what is the difference between cyber seediffy and cyberspace.	ſοJ	
		UNIT II		
3	a)	Discuss about the Legal and Indian perspectives of cyber crimes	[7]	
	b)	Describe the following cyber arracks: Buffer overflow attack, Dos and DDoS	[8]	
		attack		
		(OR)		
4	a)	Explain the mechanism of phishing with an example scenario.	[7]	
	b)	How to prevent SQL Injection Attacks? Illustrate	[8]	
		UNIT III		
5	a)	What is email abuse in cyber forensics? How to handle it?	[7]	
J	b)	What are the methods of collecting digital evidence? Explain them.	[8]	
	0)	(OR)	[°]	
6	a)	What are steps to be taken for search and seizure of digital evidence?	[7]	
	b)	Describe the process of E-Mail Tracking.	[8]	
7	,	UNIT IV	[77]	
7	a)	*	[7]	
	b)	What is the need for Computer Forensics? Describe the process of Audio and Video Applysis in it	F Q 1	
		Video Analysis in it. (OR)	[8]	
8		Describe Computer Forensics Tools with neat explanation.	[15]	
O		Describe Computer 1 orenotes 10018 with near explanation.	[13]	
		UNIT V		
9	a)	How digital signature is secured under IT Act?	[7]	
	b)	What are the Offences and penalties in Information Technology Act, 2000?	[8]	
		(OR)		
10	a)	Write the various Amendments to the Indian IT Act.	[7]	
	b)	Which section of the IT Act deals with misuse of digital signature? Explain it.	[8]	

Code No: **R194204G**

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Set No. 3

IV B.Tech II Semester Regular Examinations, April – 2023 CYBER SECURITY & CRYPTOGRAPHY

Time: 3 hours Max			Marks: 75		
		Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks *****			
		UNIT I			
1	a) b)	What are the organizational measures for handling mobile devices? Write a short note on Attack Vector. How it alters the system state? (OR)	[7] [8]		
2	a) b)	Who are Cyber criminals? Classify them. Discuss in detail about the Botnets.	[7] [8]		
		UNIT II			
3	a) b)	Explain about traditional techniques of attacks on Wireless Networks. What are the DDoS Attacks and explain how to protect from DDoS attacks. (OR)	[7] [8]		
4		Explain the following terms related to cyber crimes: i) Cyber defamation ii) Data Diddling iii) Software Piracy iv) Identity Theft v) E-mail Bombing/ Mail Bombs	[15]		
		UNIT III			
5	a) b)	Discuss in detail about eDiscovery in digital forensics. What are the tools used for investigation in cyber security? Give their features (OR)	[7] [8]		
6	a) b)	How do you preserve forensic evidence? What care must be taken for it? How is digital evidence collected at a crime scene? Illustrate.	[7] [8]		
		UNIT IV			
7	a) b)	Explain about Autopsy. Give its role in computer forensics. How do you prepare a computer forensic investigation? Explain. (OR)	[7] [8]		
8	a) b)	What is the Chain of Custody concept? How it is related to forensics? Write a short note on Network Forensics.	[7] [8]		
UNIT V					
9	a)	What are the challenges to Indian law? What is the cybercrime scenario in India?	[7]		
	b)	What are the legal and Indian perspective of cyber crime? (OR)	[8]		
10	a)	Discuss the impact of Digital signatures in ITA 2000.	[7]		
	b)	What are the positive aspects of the ITA 2000? Explain.	[8]		

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Code No: **R194204G**

Set No. 4

IV B.Tech II Semester Regular Examinations, April – 2023 CYBER SECURITY & CRYPTOGRAPHY

Time: 3 hours Max. Ma			:ks: 75	
		Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks *****		
		UNIT I		
1	a)	Which type of cyber-attacks may occur in the process of mobile banking?		
		Explain them.	[7]	
	b)	What are the security issues in mobile information security? (OR)	[8]	
2	a)	List the security challenges posed by Mobile devices.	[7]	
	b)	Define Cyber stalking. How it works? Explain with real life example.	[8]	
		UNIT II		
3	a)	What are the tips for safety and security while using the computer in a		
		cybercafé?	[7]	
	b)	Define the terms Mobile phone theft, Mishing and Hacking Bluetooth. (OR)	[8]	
4		Explain the following terms related to cyber crimes: i) Internet Time Theft		
		ii) Newsgroup Spam iii) Industrial Spying		
		iv) Credit card Frauds v) E-mail Bombing/ Mail Bombs	[15]	
		UNIT III		
5		Illustrate Encryption and Decryption Methods. How these methods are used in	F 1 63	
		cyber crime investigation?	[15]	
6	a)	(OR) Discuss in detail about search and seizure in cyber forensics.	[7]	
U	a) b)	Explain the process of E-Mail Recovery.	[7] [8]	
	0)		[o]	
_	`	UNIT IV		
7	a)	Describe Validating and Testing Forensics Software.	[7]	
	b)	Describe the steps in preparation of computer investigation. (OR)	[8]	
8	a)	Write a short note on Antiforensics.	[7]	
	b)	Explain the challenges in Computer forensics.	[8]	
0		UNIT V		
9		What is cyber crime? Explain the challenges faced by our legal system in	Г1 5 1	
		regard to cyber crime. (OR)	[15]	
10	a)	Discuss in detail about digital signature in IT Act.	[7]	
	b)	Explain the impact of oversights in ITA 2000 regarding digital signatures.	[8]	