Printed Page:-		Subject Code:- ACSBS0603	
		Roll. No:	
NOI	DA INSTITUTE OF ENGINEERI	NG AND TECHNOLOGY, GREATER NOIDA	
	(An Autonomous Institu	te Affiliated to AKTU, Lucknow)	
	CEM. VI THEODY	B.Tech	
		EXAMINATION (20 20) Information Security	
Time	: 3 Hours	Max. Marks: 1	100
	al Instructions:	TVILLE IVILLE IN I	
IMP: V	verify that you have received the ques	tion paper with the correct course, code, branch e	tc.
		ections -A, B, & C. It consists of Multiple Choice	
	ons (MCQ's) & Subjective type questi		
	· -	dicated on right -hand side of each question.	
	trate your answers with neat sketches me suitable data if necessary.	wherever necessary.	
	me sundote adia ij necessary. erably, write the answers in sequentic	ul order	
	· -	material after a blank sheet will not be	
	ed/checked.		
SECTI	ON-A		20
1. Atten	npt all parts:-		
1-a.		programs can be changed in a twinkling, so that	1
	past happiness is no predictor of fu		
((a) Passive		
	(b) Active		
	(c) None		
	(d) Both A & B		
1-b.		and programs are changed only in a specified and	1
1-0.	authorized manner.(CO1,K1)	and programs are changed only in a specified and	1
((a) Dignity		
((b) Integrity		
((c) None		
((d) Both A & B		
1-c.		rganization strives to meet its needs for	1
	information security is codified as	(CO2,K1)	
((a) Security policy		
((b) Terms of policy		
((c) None		
((d) Both A & B		
1-d.	One can implement that policy by	taking specific actions guided by management	1

		ontrol principles and utilizing specific security standards, procedures, and CO2,K1)	
	(a)	Mechanisms	
	(b)	Mechanisms time	
	(c)	None	
	(d)	Both A & B	
1-e.		according to the CIA Triad, which of the below-mentioned element is not considered in the triad? (CO3,K1)	1
	(a)	Confidentiality	
	(b)	Integrity	
	(c)	Authenticity	
	(d)	Availability	
1-f.		rom the options below, which of them is not a vulnerability to information ecurity? (CO3,K1)	1
	(a)	flood	
	(b)	without deleting data, disposal of storage media	
	(c)	unchanged default password	
	(d)	latest patches and updates not done	
1-g.	_ te	is the process of retaining or keeping of data at a secure place for long- erm storage (CO4,K1)	1
	(a)	Data rolls	
	(b)	Data collections	
	(c)	Private search engines	
	(d)	None of These	
1-h.		method used by IDS that involves checking for a pattern to identify nauthorized activity.(CO4,K1)	1
	(a)	Session Splicing	
	(b)	Protocol Decoding	
	(c)	Pattern Matching	
	(d)	State Table	
1-i.	th	ne encryption techniques are primarily used for improving the(CO5,K1)	1
	(a)	Security	
	(b)	Performance	
	(c)	Reliability	
	(d)	Longevity	
1-j.	In	system hacking, which of the following is the most crucial activity.(CO5,K1)	1
	(a)	Information gathering	
	(b)	Covering tracks	

	(c) Cracking passwords	
	(d) None of the above	
2. Atter	npt all parts:-	
2.a.	List out some of the common cyber-attack with one real example.(CO1,K1)	2
2.b.	Explain different type of firewall used in a system for Information security. (CO2,K1)	2
2.c.	Write down the term virtualization with example.(CO3,K2)	2
2.d.	Define the term intrusion detection. (CO4,k1)	2
2.e.	Explain the database operating system security. (CO5,K1)	2
SECTI	ON-B	30
3. Ansv	ver any <u>five</u> of the following:-	
3-a.	Explain Analysis of Security in Unix and Linux in detail. (CO1,K2)	6
3-b.	Discuss the following terms understand by risk, vulnerability, and threat in a network (CO1,K2)	6
3-c.	Explain the Information Security Roles to be played by various professionals in a typical organization (CO2,K2)	6
3-d.	Discuss Data Encryption Why it is important in network security? (CO2,K1)	6
3.e.	Discuss how to deal with Confinement problem, Explain in detail. (CO2,K1)	6
3.f.	Describe viruses in details and what is the different phase of the viruses. (CO4,K2)	6
3.g.	Explain the term Denial of Service Attack.(CO5,K2)	6
SECTI	ON-C	50
4. Ansv	ver any one of the following:-	
4-a.	Criminals are constantly surveying the environment for an opportunity to commit crimes consider an example and explain in detail .(CO1,K1)	10
4-b.	Explain the Security Life Cycle with respect to information security. (CO1,K1)	10
5. Ansv	ver any one of the following:-	
5-a.	Describe the cryptographic algorithms. Explain Caesar Cipher algorithm with an Example.(CO2,K3)	10
5-b.	Explain in detail the of analysis of Security in Unix and Linux in detail. (CO2,K2)	10
6. Ansv	ver any one of the following:-	
6-a.	Explain the concepts of security threats and security assurance.(CO3,K3)	10
6-b.	Describe Building systems with assurance with regard to information security. (CO3,K3)	10
7. Ansv	ver any one of the following:-	
7-a.	Describe basic principle of Information security. Give detailed real life example of each principle.(CO4,K2)	10
7-b.	Describe one case study involving digital forensics with respect to information security. (CO4.K3)	10

- 8. Answer any one of the following:-
- 8-a. Explain the different types of database attacks in details and justify with example. 10 (CO5,K2).
- 8-b. Write down the responsibilities of a database administrator when it comes to database security. (CO5,K2)

