1611		
3 H	ours / 100 Marks Seat No.	
	Instructions: (1) All questions are compulsory.	
	(2) Answer each next main question on a new page.	
	(3) Illustrate your answers with neat sketches wherever necessary.	
	(4) Figures to the right indicate full marks.	
	(5) Assume suitable data, if necessary.(6) Mobile Phone, Pager and any other Electronic Communication	
	devices are not permissible in Examination Hall.	
	Mai	·ks
1. a)	Attempt any three.	12
	a) Describe the basic principles of computer security.	
	b) List types of attacks. Explain backdoors and trapdoors attack.	
	c) Describe piggy backing and shoulder surfing.	
	d) Explain the terms: Cryptography, cryptanalysis and Cryptology.	
b)	Attempt any one.	6
	a) Describe Model for security with the help of diagram.	
	b) Explain IT Act, 2000 and IT Act, 2008.	
2. At	etempt any two .	16
a)	Explain threat to security in detail w.r.t. virus, worms, intruders, insiders.	
b)	What is access control? Explain DAC, MAC and RBAC access control model.	
c)	Explain transposition technique. Convert plain text to cipher text using Rail Fence technique "COMPUTER SECURITY"	
3. At	tempt any four .	16
a)	Explain use of Biometrics in computer Security. List various Biometrics used for computer security.	
b)	Distinguish between substitution cipher and transposition cipher.	
c)	List types of firewall. Explain packet filter with diagrams.	

d) What is IP security? Describe authentication header mode of IP security.

e) Explain the architecture of secure socket layer.

		N	larks
4.	a)	Attempt any three.	12
		a) Define caesar cipher. Write its algorithm and convert "COMPUTER SECURITY" using caesar cipher.	5
		b) Draw and explain virtual private network.	
		c) Describe pornography and software piracy related to cyber crime.	
		d) Explain what is application hardening.	
	b)	Attempt any one.	6
		a) With neat sketches explain the following:	
		i) SYN Flood Attack	
		ii) Main-in-the middle attack.	
		b) Describe packet sniffing and packet spoofing attacks.	
5.	Att	tempt any two .	16
	a)	Explain the role of people with respect to password selection in detail.	
	b)	What is security topology? Describe security zone in detail.	
	c)	What is Kerberos? Explain with diagram different servers involved in Kerberos.	
6.	Att	empt any four.	16
	a)	Describe security awareness in security.	
	b)	Distinguish between symmetric and asymmetric cryptography (any 4 points).	
	c)	Explain e-mail security techniques (protocols).	
	d)	What is intrusion detection system? Explain host based IDS.	
	e)	List and explain the key participants in secure electronic transaction.	