

3 I	Hours / 100 Marks Seat No.	
	 Instructions: (1) All questions are compulsory. (2) Illustrate your answers with neat sketches wherever necessary. (3) Figures to the right indicate full marks. (4) Assume suitable data, if necessary. (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall. 	_
		ırks
1.		12
	Describe security principles based on CIA. Evaluin piggybooking.	
	2) Explain piggybacking.3) Compare symmetric and asymmetric key cryptography.	
	4) Describe terms regarding computer security.	
	i) Assets ii) Vulnerability	
	iii) Threats iv) Risk	
	b) Attempt any one of the following:	6
	1) Explain model of security with block diagram.	
	2) Explain data recovery tools and procedures.	
2.	Attempt any two of the following:	16
	1) Explain any four attacks on computer systems security.	
	2) Explain at least four roles of peoples in security.	
	3) Explain SHA-1 algorithm with diagram.	
3.	Attempt any four of the following:	16
	1) Explain the concept of Kerberos.	
	2) Describe the process of biometric authentication with neat labelled diagram for finger print.	
	3) Explain use of S-Box in implementation of DES algorithm.	
	4) Explain working of PGP email security.	
	5) Explain the steps for hardening applications.	

		Marks
4.	a) Attempt any three of the following:	12
	1) Explain concept of Hashing with example and properties.	
	2) Describe following term:	
	i) DMZ ii) Internet	
	iii) Intranet iv) IDS	
	3) Explain cyber crime	
	4) Explain working of Handshake protocol in SSL.	
	b) Attempt any one of the following:	6
	1) Define attack. Explain steps in attack.	
	2) Define virus. Explain atleast 5 types of viruses.	
5.	. Attempt any two of the following:	16
	1) Explain what are components of good password and four password selection stra	tegies.
	2) Explain in detail intrusion detection systems.	
	3) Explain need for firewall and explain one of the type of firewall with diagram.	
6.	. Attemptany four of the following:	16
	1) Enlist any four consequences when the system is accessed by non-employee.	
	2) Explain rail fence transposition technique.	
	3) Explain AH mode of IP security.	
	4) Explain IT Act 2000 and 2008.	
	5) Explain the function of entities used in SET.	