N. I	B.: (1) Question No. 1 is compulsory. (2) Attempt any four from Question Nos. 2 to 7.	
	(3) Make Suitable assumptions wherever	
	(4) Answers to the same question must be written together.	
	(J) I variable to tile i illigit morks	•).
	(6) Draw neat labelled diagrams wherever necessary.	
	Meccssary.	
Q1.	Write short notes on the following:	20
	a) Logic bombs.	
	b) "Digging for worms".	
	c) Filtering services for DNS.	•
	d) PKC (Public Key Cryptography).	• • ;• 1
Q2.	a) Explain the principles of security.	8
	b) Explain Denial of Service attack? What are the variations of the DOS attack? Explain.	6
	c) Describe the life-cycle of a virus.	6
Q3.	a) Explain any of the symmetric cryptosystems algorithms in detail.	8
	b) Can the firewall store the dynamic state entries? If yes, what firewall does support the	6
	same? Explain the characteristics of the same.	6
	c) What is protocol failure? Explain the loophole you identified in the protocols such as	
	TCP/IP and SSH.	
Q4.	a) What are worms? How they spread onto your system? What are the different types of	8
	worms? Explain the ways to eradicate them.	
	b) Explain the different types of firewall configuration.	6
	c) Explain the steps in implementing digital signature for your organization.	6
		1.04
Q5.	a) Explain substitution and transposition cipher techniques in detail.	8
	b) Explain the characteristics, advantages and limitations of the firewall.	6
	c) What is Trojan Horse Program? How they affect computer programs? Explain its	
	types.	. 6
	ej pos.	
Q6.	a) Explain any of the message digest algorithms.	. 8
401	b) What are the commonly used methods for "Authentication of users"? How is the	6
	authentication failure observed in this?	
	t and the state of	6
	c) What is security policy? Explain them in detail.	
07	1.11.11.1 amendan	_
Q1.	a) Compare digital signature and digital envelop.	5
	b) Compare and contrast symmetric and asymmetric cryptography.	5
	© Compare active and passive attack.	5
10	d) Compare distributed and traditional firewall.	5