		(3 Hours)	[Total
			Marks:80
N.B	(1)	Question No1 is compulsory.	
e e	(2)	Attempt any three out of remaining questions.	
	(3)	Figures to the right in parenthesis indicate full marks.	
1.	(a)	Explain overview of DES with one round in detail?	[10]
	(b)	Explain and differentiate between the various architectures of a	[10]
		firewall and its implementation?	is a
2.	(a)	What do you mean by Intrusion Detection System? Discuss the	[10]
		various types of intrusion detection system	
	(b)	Discuss Authentication? Explain how authentication can be done	[10]
		using tokens?	
3.	(a)	What are Digital certificates? Explain the stepwise process of	[10]
		certificate generation? How is Digital Certificate issue and by	
		whom?	
	(b)	What is the need for database security? Explain database access	[10]
	×.	control and inference control?	
١.	(a)	Define Message Digest. Explain MD5 and compare with SHA?	[10]
	(b)	Define WEP authentication. Explain authentication and key	[10]
		agreement in 802.11i?	
	(a)	Discuss email security with respect to PGP and S/MIME.	[10]
25 E	(b)	Analyze RSA and its security. Why is RSA a secure algorithm?	[10]
		Give an example?	
•		Write a short note on (Any four)	[20]
	(i)	Digital Signatures	ž
	(ii)	Web Services Security	
	(iii)	Defense Against Denial-of-Service Attacks	
	(iv)	SET Participants	
	(v)	TKIP	
2 8 1			A.