375 = 4T

QP Code :04544

(21/2 hours)

Total Marks: 75

1	N. D. CO. AV	Mains. /5
- 1	N. B.: (1) All questions are compulsory.	
	(2) Make suitable assumations when	
	(3) Answers to the <u>same question</u> must be <u>written together</u> . (4) Numbers to the <u>right indicate</u>	tions made
	(4) Numbers to the right indicate marks.	
12		
	(5) Draw neat labeled diagrams wherever necessary.	
7	(6) Use of Non-programmable calculators is allowed.	
	1. Attempt any two of the following:	
V	What is the principle behind of the	10
. 1	Explain the various ways of the Time pads? Why is it highly secure?	10
. (Explain the various ways of attack. (such as known plain-text attack etc.). What are the two basic ways of transforming plain text attack etc.).	
u	What are the two basic ways of transforming plain-text into cipher-text? Explain the following principles of security:	
	NAT TO THE PERSON OF SOCIETY.	
	i) Non-Repudiation ii) Integrity	
2	Attempt any two of the following:	(a) N. P.
a	Explain CFB (Cinher Feedbank)	10
b	What are the features of Flores 1 mode of algorithms.	
	What are the features of blowfish algorithm? Explain the steps in encryption using blowfish algorithm.	Process
C.	Evolein the mining of the second of the seco	process
ut.		
Ca.	Explain in detail the steps in each round of DES.	
_		
3.		
va.	Compare symmetric and assumential	10
	Compare symmetric and asymmetric key cryptography using their characteristics.	Varioue
cb.	What are the key rocui	rarious
c.	What are the key requirements of message digest?	
d.	THE IS LIV UITE CITCE DETVICES MADE	
w.	Explain the concept of Digital Envelope?	
4.	Attempt any two of the following:	
a.	Write short note on private box	10
Jb.	What is cross-certification? Why is it needed?	10
· c. ·	Describe the role of CA: Why is it needed?	
d.		
- La.	Explain the steps in creation of Digital Certificate.	
5.	Attempt any two of the following:	
a.	What is buffer overflow attack on get a	10
ili.	What are the objectives of SET? How are they achieved?	
C.	Write a detailed note on Viny are frey achieved?	
d.	Write a detailed note on VPN (Virtual Private Network).	
***	What are the attacks on packet filter firewall?	10
6.	Attempt any two of the following:	
a.	What is authentication token? Combined	10
b.		20
c.	Explain the usage of smort and in Explain the problems associated with it	
d.	Explain the usage of smart cards in authentication. Explain shared secret method of mutual authentication.	
1750	and success method of mutual authentication	

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15.

7. Attempt any three of the following:

What are the different types of criminal attacks? a.

Discuss how encryption happens in RC5. b.

Explain the working of SHA (Secure Hash Algorithm). C. d.

Explain PKCS#5 PBE (Password Based Encryption) standard. Explain the concept of NAT (Network Address Translation). e.

Write a detailed note on biometric authentication. f.

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