Roll No. Printed Pages : 2

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BT-7/D12

SECURITY AND CRYPTOGRAPHY

Paper-CSE-473

Time allowed: 3 hours]

[Maximum marks: 75

Note: Attempt five questions by selecting at least one question from each unit.

Unit-I

 What do you understand by crypto-analysis? Discuss various types of ciphers and principles of cryptography.

15

- Describe the strengths and weaknesses of following crypto algorithms:
 - (a) DES
 - (b) RSA
 - (c) IDEA.

Unit-II

Discuss following terms/concepts:

15

- (a) shared-secret key
- (b) kerbros
- (c) digital signature

Give examples for illustration.

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(2)

4.	De	scribe following algorithms:	15
	(a)	KDC family of protocols.	
	(b)	Needham-Schroeder Protocol	
	(c)	Secure Hash algorithm.	
		Unit-III	
5.	Wh	at do you mean by computer security? Desc	cribe
		ious threats to and mechanisms for computer secu	
		•	15
6.	Des	scribe different types and flavours of "malic	ious
	cod	e". Discuss the mechanism of their working and	d the
	way	they are dealt with.	15
-		Unit-IV	
7.	Answer following parts:		15
	(a)	Threats to network security and preventing loss/damage.	the
	(b)	Network security plan and policy.	
	(c)	Virtual Private Networks.	
8.	Disc	cuss following topics in network security conte	xt:
			15
	(a)	Firewalls and its types.	
	(b)	Security of network components	
	(c)	Controlling the access at various levels.	
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