No. of Printed Pages : 2

RCSE-022

Ph.D. PROGRAMME IN COMPUTER SCIENCE

00054 Term-End Examination

December, 2014

RCSE-022 : SECURITY AND CRYPTOGRAPHY

Time : 3 hours

Maximum Marks : 100

Note : Attempt any **five** questions. All questions carry equal marks.

1. Write an algorithm to generate the encryption and decryption keys in RSA. Also, give an example to show the process of encryption and decryption keys generations.

20

20

- 2. What is Digital Signature ? Explain two important approaches of generating digital signatures.
- Password policies have conflicting requirements." Justify this statement using suitable examples. 20

P.T.O.

1

4.	What is the size of IPSec header ? Draw the		
	eacl	h header field in IPSec.	20
5.	Exp use Intr fire	olain the various types of security firewalls d in corporates. Also, discuss the intelligent rusion Detection Systems (IDS) used in walls.	20
6.	Wh pro	at is Kerberos ? Draw and explain how it vides authentication services.	20
7.	Differentiate between the following pairs :		20
	(a) Stream Cipher and Block Cipher		
	(b)	DES and RSA	
	(c)	Quantum Cryptography and Visual Cryptography	
	(d)	Confidentiality and Integrity	

RCSE-022

2