(20 Marks)

## Third Semester M.Tech. Degree Examination, June 2012 **Information Security**

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.			
1	a.	What is information security? Define the seven critical characteristics of information	on. (08 Marks)
	b.	With a neat diagram, explain the various phases of Sec SDLC.	(12 Marks)
2	a.	. List the major process steps in the Plan-Do-Check-Act cycle of information sec management system. (10 M	
	b.	Name the different categories of firewalls based on processing mode. Discuss	
3	a.	Define the following:  (i) Host based IDPS  (ii) Network based IDPS  (iii) Honey–Pot  (iv) Padded cell	
	b.	(v) Active vulnerability scanner. List the five areas addressed by the Network management model. Indicate the	(10 Marks) objects of (10 Marks)
4	a. b. c.	What is cryptanalysis? What are the various types of cryptanalytic attacks?	(06 Marks) (06 Marks) (08 Marks)
5	a. b. c.	Describe the RSA public key encryption algorithm.	(06 Marks) (08 Marks) (06 Marks)
6	a. b.	Describe the sequence of steps in providing	e and how (10 Marks)
7		With neat diagrams, describe the basic combination of security associations.	(10 Marks) (10 Marks) (10 Marks)

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b) Stream ciphers

Malware.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

8

a)

c)

Write short notes on: VPN

SET