1 chi

USN	
-----	--

12SCS31

(06 Marks) (06 Marks)

(08 Marks)

## Third Semester M.Tech. Degree Examination, Dec.2014/Jan.2015 Information Security

		3 hrs. Max. I	Marks: 100
		Note: Answer any FIVE full questions.	1
	iller 		
	a. b.	What is security? What are the critical characteristics of information?  Explain in brief the different phases of security systems development life cycle.	(08 Marks
I	c.	Explain the relationship between the policies, standards and practices. Give diagram for the same.	(06 Marks e the block (06 Marks)
_			
	a.	Describe the issue specific security policies and system specific security policies the management of the organization.	s defined b
	b.	Define firewall? How are the firewall categorized based on processing mode?	(10 Marks
	a.	Explain the different detection methods used by intrusion detection and preven to monitor and evaluate network traffic.	/40 3 2 .
ł	b.	What are honey pots, honey nets and padded cells? List the advantages and disacusing them.	
			(10 Marks
	a. o.	What are passive and active attacks? Discuss different types of passive and ac	
		Name the organizations under the internet society that are responsible for t standards development and publications.	he work o
·		Summarize the various types of cryptographic attacks based on the amount of known to the cryptanalyst.	information (06 Marks
			•
_			
a b	l. ).	With a neat diagram give an overview of the AES algorithm. Explain.  Explain message digest generation using SHA – 512. Draw a block diagram for	(10 Marks) or the same
b	).	Explain message digest generation using SHA – 512. Draw a block diagram for	or the same
b a.	).  -  -	Explain message digest generation using SHA – 512. Draw a block diagram for the requirements of public key cryptography.  Perform the encryption and decryption using the RSA algorithm for the following	or the same (10 Marks)
b a.		Explain message digest generation using SHA – 512. Draw a block diagram for the requirements of public key cryptography.  Perform the encryption and decryption using the RSA algorithm for the following $P = 3$ , $P = 1$	or the same (10 Marks) (06 Marks)
b a.		Explain message digest generation using SHA $-$ 512. Draw a block diagram for the requirements of public key cryptography. Perform the encryption and decryption using the RSA algorithm for the following $P = 3$ , $P = 1$	(10 Marks)
b a.		List the requirements of public key cryptography.  Perform the encryption and decryption using the RSA algorithm for the following P = 3, q = 11, e = 7, M = 5.  Explain the Diffie – Hellman key exchange algorithm.  List the differences between Kerberos version 4 and version 5.	or the same (10 Marks) (06 Marks) (3: (08 Marks) (06 Marks)
b a b c.		Explain message digest generation using SHA $-$ 512. Draw a block diagram for the requirements of public key cryptography. Perform the encryption and decryption using the RSA algorithm for the following $P = 3$ , $P = 1$	or the sam (10 Mark (06 Mark g: (08 Mark (06 Mark

\* \* \* \* \*

Explain the generation of dual signature of secure electronic transaction.

Explain the anti – replay service provided by AH.