R13 Code No: 126AQ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, October/November - 2016 INFORMATION SECURITY							
Time: 3 hours	(Computer Science and Engineering		Mos. Martin 77				
			Max. Marks: 75				
consists of 5 Units. An	which carries 25 marks. Answer aswer any one full question from e e a, b, c as sub questions.	all questions all questions all questions	in Part A. Part B				
SR SR	PART - A	1	(25 Marks)	508 kg			
1.a) Explain the network see	curity model.		[2]				
b) What are the two basic	functions used in encryption algo	rithms?	[3]				
c) What are the advantage	s of Key Distribution?		[2]				
d) What are the principles	of public key cryptosystems?	, ere, gree,	····. ···[3]				
e).: List three approaches to	Message Authentication:	******		****			
f) Explain the importance	of knapsack algorithm.		[3]				
g) What are different appropriateh) How does PGP provides	oaches to Public-key Managemen	t?	[2]				
i) What is Secure Socket I	s public key management?		[3]				
i) .: What is Secure Socker I	codes of TLS protocol?;		[2]				
	Codes of a LS protocory	* * * * * * * * * * * * * * * * * * *	<u> </u>				
	PART - B	*** * * * *	ेश्चकों के ^{के} श्च	* × * *			
			(50 Marks)				
2.a) Explain the terminologie	es used in Encryption. Conventional Encryption Model. OR	258 k583 5 A 7 5 5 A 8 5 7 A 6 6 8 5 5 6 6 6 6	[[5+5]) **			
3.a) Compare symmetric andb) What is Steganography?	asymmetric key cryptography. Explain its features.		[5+5]				
4.3			[0.0]				
4.a) Differentiate linear and d b) Explain Block Cipher de	lifferential crypto-analysis. sign principles. OR		[5+5]	190 XXXX			
5. Briefly explain the charac	cteristics and operations of RC4 E	Encryption algo	orithm. [10]				
*		mery peron uigo	10]				
 6.a) What are the requirement b) Discuss about Secure Has 7.a) Explain the approaches for 	s of Authentication? sh algorithm. OR or Digital Signatures based on Pul		[5+5]				
b) Discuss about Biometric A	Authentication.	one Key Encry	ption. [5+5]				
	erent services provided by Pretty	Good Privacy	_				
	\sim \sim			**** ****			
better than MIME.	graphic algorithms used in S/MIM	IE? Explain ho	ow S/MIME is [10]	*** * * * * * * * * * * * * * * * * *			

[10]

				***		s.		
	:b):Wha	t are different se	rvices provided t	that define an SS by the SSE Recor OR principles and to	d Protecol?	[5+5]	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
x	b) Disc						[5+5]	
							(77)	
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	SR					SR	SR	