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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinat First Rankel Com www.FirstRanker.com

(Computer Science and Engineering)

INFORMATION SECURITY

e: 3hours

Max.Marks:75

This question paper contains two parts A and B Part A is computed which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.								
PA	RT- A							
9 K9 K9		M. W	(25 Marks)	X X X X X X X X X X X X X X X X X X X				
What are the types of security attacks? Compare substitution ciphers with tran Compare block ciphers with stream cip Write about strength of DES algorithm. What is a digital signature?	sposition ciphers bhers. . .	le con	[2] [3] [2] [3] [3] [3] [4] [5] [2] [5] [6]	K9				
What properties must a hash function have to be useful for message authentication?[3] What are the various PGP services? [2]								
What parameters identify an SA and w particular SA?	hat parameters c	haracterize the na	ture of a [3]					
What is cross site scripting vulnerability	ty?		[2]					
PA	RT-B		(50.15-1-)					
			(50 Marks)					
Consider the following: Plaintext: "PROTOCOL" Secret key: "NETWORK"	KS	K9	K9					
What is the corresponding cipher text	using play fair ci	pher method?	[5.5]					
What is the need for security?	OR		[5+5]					
Explain the model of network security Write about steganography.	* * * * * * * * * * * * * * * * * * * *		[5+5]	X				
Explain the AES algorithm.			[10]					
Consider a Diffie-Hellman scheme with	OR	me a=11 and a pr	rimitive root					
				1.** ***				
$\alpha=2$. a) If user 'A' has public key $Y_A=9$, when b) If user 'B' has public key $Y_B=3$, where			[5+5]	ž ⁱ ×, vi				
Explain HMAC algorithm.			[10]					
	OR	x + x+x	* x x**					
Explain the DSA algorithm	* * * * * * * * * * * * * * * * * * *	X	[5+5]	* * * * * * * * * * * * * * * * * * *				

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	8.a) Expla	in PGP trust model.	* * * * * * * * * * * * * * * * * * *			,KO	* * * * * * * * * * * * * * * * * * *
	b) What	are the key compon	ents of internet O		?	[5+5]	
	b)What	in MIME context ty are the five principa in secure electronic	Il services prov		KS	[5+5] [10]	
		in password manage are the types of fire		R		[5,5]	
***** * * * * * * * * * * * * * * * *	i vi mat	are the types of the		k.C	**************************************	[5+5]	H
			000	000—			
* **** **** **** * ***	KÐ	K9	K9	K9	K9	K9	KÐ
9	KS		K9		K.	K9	K9
XPP XPP XPP XPP XPP	K9	*	K9	K9	KÐ	K9	KS
	K9		K9	K9	K9	K9	K, D
	K9		K9	K9	K9	K9	K9
	K9	K9	K9	Ke	KU	K9	KS