(10 Marks)

USN

i) Data Access Control

ii) Concept of Trusted system

Eighth Semester B.E. Degree Examination, June/July 2016 **Network Security**

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

		at least TWO questions from each part.		
	PART – A			
1	a.	With a neat diagram, explain network access security model with gate keeper function.		
	b.	Classify and explain different type of attacks.	(05 Marks)	
			(08 Marks)	
	С.	Using the keyword "ENCRYPT" create playfair matrix and obtain cipherto		
		message "MATCHFIXED". Also write the rules used.	(07 Marks)	
2	0	Evalois single sound of DES along with the language	(40.75.1.)	
2	a.	Explain single round of DES along with the key generation.	(10 Marks)	
	b.	Explain the working of counter mode of block cipher operation.	(04 Marks)	
	C.	Discuss the final evaluation criteria of AES.	(06 Marks)	
2		Justify have both confidentiality and authorization are obtained in publicless are requested		
3	a.	, and the second		
	h	Write RSA algorithm.	(05 Marks)	
			(04 Marks)	
	c. In Diffie Hellman key exchange $q = 71$, its primitive root $\alpha = 7$ A's private key is 5 B private key is 12. Find: i) A's public key; ii) B's public key, iii) Shared secret key.			
		private key is 12. Find. 1) A s public key, iii) Shared secret k	(05 Marks)	
	d.	Explain the distribution of secret key using the public key cryprography with cor		
	u.	and authentication.	(06 Marks)	
		and data of the da	(00 Marks)	
4	a.	List out the requirements and explain the arbitrated digital signature technique.	(10 Marks)	
		Compare RSA and DSS approach.	(06 Marks)	
	c.	Illustrate replay attack with examples.	(04 Marks)	
			(011111113)	
PART – B				
5	a.	Explain the key requirements and features of SET.	(10 Marks)	
	b.	Discuss SSL record in terms of fragment compression and encryption.	(10 Marks)	
		40		
6	a.	Explain password selection strategies.	(08 Marks)	
	b.	Describe statistical anomaly detection.	(06 Marks)	
4		Discuss the different categories of intruders.	(06 Marks)	
7	a.	Give the taxonomy of malicious programs. Briefly explain all the software threats	. (10 Marks)	
	b.	Describe digital immune system with diagram.	(06 Marks)	
	c.	Brief on four generations of Antivirus software.	(04 Marks)	
8	a.	What is firewall? Explain the various firewall configurations with relevant diagram.		
			(10 Marks)	
	b.	Write short notes on:		

* * * * *