B. Tech Degree VIII Semester (Supplementary) Examination, September 2006

CS 801 SECURITY IN COMPUTING

(2002 Admissions)

3 Hours	N		Maximum M	Maximum Marks: 100	
			1		
(a)					
4.5					(12)
(b)	· · · · · · · · · · · · · · · · · · ·				(8)
(a)					(0)
					(8)
(0)	Explain the DES eneryphon algorithm.				(12)
	Explain differen	nt types of software thre	eats.		(20)
	OR				
	What are viruse	es? Explain various typ	es of viruses	:	(20)
(a)	Explain memor	y and address protection	n schemes.		(10)
					(10)
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(a)	(a) Explain different types of file protection mechanisms.				(10)
(b)	What is authentication? Explain user authentications schemes.				(10)
(a)	Describe securi	ty in multilevel databas	ses.		(12)
					(8)
	•				
VIII. (a)	Outline different design techniques for multilevel secure databases.				(12)
(b)	Explain:				
	(i)		(ii)		
	(iii)	Inference	(iv)	Integrity.	(8)
(a)	What is a firew	all? List techniques us	ed by firewal	ls to control access and enforce a	
IX. (a)					(10)
(b)					(10)
(-)			R		(10)
(a)	Describe various threats in networks.				(10)
					(10)
	(a) (b) (a) (b) (a) (b)	(a) Draw a block d Explain all com Briefly define t (a) What is one-tim (b) Explain the DE Explain different What are viruse (a) Explain memor (b) What are truste (a) Explain different What is authent (a) Describe securi (b) What is 2 - pha (a) Outline different Explain: (i) (iii) (a) What is a firew security policy. (b) What is an IDS (a) Describe various	(a) Draw a block diagram representing more Explain all components. (b) Briefly define the Caesar Cipher. (a) What is one-time pad? Explain using the Explain the DES encryption algorithm Explain different types of software three Oreas when the Explain memory and address protection what are viruses? Explain various type (a) Explain memory and address protection what are trusted operating systems? For the Explain different types of file protection what is authentication? Explain user at the Explain different design technique? The Explain is the Explain in the Explain i	(a) Draw a block diagram representing model of convergence Explain all components. (b) Briefly define the Caesar Cipher. OR (a) What is one-time pad? Explain using an example. (b) Explain the DES encryption algorithm. Explain different types of software threats. OR What are viruses? Explain various types of viruses (a) Explain memory and address protection schemes. (b) What are trusted operating systems? Explain. OR (a) Explain different types of file protection mechanism what is authentication? Explain user authentication. (a) Describe security in multilevel databases. (b) What is 2 – phase update technique? What problem OR (a) Outline different design techniques for multilevel security in the control of the control	(a) Draw a block diagram representing model of conventional cryptosystem. Explain all components. (b) Briefly define the Caesar Cipher. OR (a) What is one-time pad? Explain using an example. (b) Explain the DES encryption algorithm. Explain different types of software threats. OR What are viruses? Explain various types of viruses. (a) Explain memory and address protection schemes. (b) What are trusted operating systems? Explain. OR (a) Explain different types of file protection mechanisms. (b) What is authentication? Explain user authentications schemes. (a) Describe security in multilevel databases. (b) What is 2 – phase update technique? What problem does it solve? OR (a) Outline different design techniques for multilevel secure databases. (b) Explain: (i) Sensitive data (ii) Reliability (iii) Inference (iv) Integrity. (a) What is a firewall? List techniques used by firewalls to control access and enforce a security policy. What is an IDS system? Explain. OR (a) Describe various threats in networks.

