

Total No of Questions: [12]

SEAT NO.	:	+
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[Total No. of Pages: 02]

B.E. 2008 Course (Information Security)

(Elective - IV) (Semester - II)

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Time: 3 Hours Max. Max.									
Instructions to the candidates:									
1) Answers to the two sections should be written in separate answer books.									
2) Answer any three questions from each section.3) Neat diagrams must be drawn wherever necessary.									
4) Figures to the right side indicate full marks.									
	5)	Assum	ne Suitable data if necessary						
			SECTION I						
	Q1)	a)	Explain the different attributes of Network Security. Discuss the needs of N	Network	[10]				
	(-)	/	security in Computer Technology.		[,]				
		1.			5001				
		b)	What is Classical Cryptography? Explain in short.		[08]				
			OR						
	Q2)	a)	What is Mechanism in network security? Explain any one mechanism in de	etail.	[10]				
		b)	Explain Network Security lifecycle in detail		[08]				
	Q3)	a)	Discuss DES algorithm with suitable formulae.		[80]				
		b)	What are the problems of Cryptography? Enlist and discuss in short.		[08]				
			OR		[]				
	Q4)	a)	Explain different block cipher mode of operation with suitable examples.						
		b)	Discuss RC5 algorithm in detail.						
	Q5)	a)	Differentiate public and private key Cryptography		[80]				
		b)	What is Man-in-Middle attack? Explain in detail with suitable example.		[80]				
	Q.6)	a)	OR What is public key Cryptography? Explain RSA algorithm in detail.		[08]				
	(,								
		b)	Explain Diffie-Hellman algorithm in Detail.		[80]				
			SECTION II						
	Q7)	a)	What is MAC? Explain it with suitable example.		[10]				
		b)	What is Digital Signature? Discuss any one algorithm of Digital Signature.		[80]				
			OR						
	Q8)	a)	Explain DSA algorithm in detail.		[08]				
		b)	What is Kerberos? Discuss the working principles of Kerberos with suitable	e diagram.	[10]				
	Q9)	a)	What is Intrusion Detection System? Explain IDS mechanism in detail.		[08]				

	b)	Explain Principles of Firewall Design. OR	[80]
Q10)	a)	What is IPSEC? Discuss it in detail.	[08]
Q11)	b) a)	Differentiate IDS and IPS with suitable examples. What is SET? Discuss it SET with suitable example.	[80] [80]
	b)	Explain working principles of PGP in detail.	[80]
		OR	
Q.12)		Write short notes on followings.	
	a)	Strengths of Security services.	[04]
	b)	Smart Cards	[04]
	c)	S/MIME,	[04]
	d)	PEM	[04]