Total No. of Questions: 10]	SEAT No.:
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B.E. (Information Technology) (Semester - I) INFORMATION AND CYBER SECURITY (2012 Pattern) *Time* : 2½ *Hours*] [Max. Marks: 70 Instructions to the candidates: Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10. 2) Neat diagrams must be drawn wherever necessary. 3) Figures to the right side indicate full marks. 4) Assume suitable data if necessary. Explain Passive attacks and Active attacks in detail. **Q1)** a) [6] State the Euclids algorithm with example. b) [4] OR **Q2)** a) Draw AES block diagram and state the general steps in detail. [6] Distinguish between linear cryptanalysis and differential cryptanalysis. [4] b) *Q3*) a) Enlist the requirement of hashfunction and explain working of MD5 algorithm In detail. What is Needham Schroeder protocol? Explain with sequence diagram.[4] b) OR **Q4**) a) Define Fermat's theorem with example. [3] What is Kerberos? b) [2] Explain Diffie- Hellman Key exchange algorithm with example. c) [5]

Q5)	a)	Explain SSL hand shake and SSL Record protocol in detail with ne sketch.	at 3]
	b)	Explain different IDS methods with one example each.	8]
		OR	
Q6)	a)	Define IKE protocol and explain its aggressive mode and quick mode brief.	in 3]
	b)	Describe briefly how IPSec works and enlist its applications? Distinguishetween tunnel and transport mode of IPSec. [8]	sh 3]
Q7)	a)	Describe the Indian and global legal perspective oncyber-crime. [6]	6]
	b)	Explain the types of cyber-crime in detail. [10])]
		OR	
Q8)	a)	What is cyber stalking? Explain the types of stalkers. [10])]
	b)	Address security issues in cloud computing.	6]
Q9)	a)	Write short note on. [12	2]
		i) Indian IT Act 2000 and its challenges.	
		ii) SQL injection	
	b)	Define and differentiate phishing and pharming? Describe key logge and Spywares in brief.	ers 6]
		OR	
Q10)Writ	te short note on following	
	a)	Host based Malicious programs: Trap Door, Logic Bombs and Troja Horse.	an 6]
	b)	Virus and Worm.	6]
	c)	Proxy server and an anonymizer.	6]