Total No. of Questions: 10]	SEAT No.:
D2054	[Total No. of Dogos 12

[5059]-661

B.E. (Information Technology)

INFORMATION AND CYBER SECURITY

(2012 Pattern) (Semester - I)				
		[Max. Mark ons to the candidates: Answers Question 1 or 2, 3 or 4, 5 or 6, 7 or 8 and 9 or 10. Neat diagrams must be drawn whenever necessary. Figures to the right indicate full marks. Assume suitable data, if necessary.	s : 70	
Q1)	a)	List and briefly define types of cryptanalytic attacks based on wiknown to the attacker.	hat is [6]	
	b)	Determine gcd (24140, 16762).	[4]	
		OR		
Q2)	a)	Using the extended Euclidean algorithm, find the multiplicative in of	verse [6]	
		i) 1234 mod 4321		
		ii) 24140 mod 40902		
	b)	What is the difference between a monoalphabetic cipher a polyalphabetic cipher?	and a [4]	
Q3)	a)	What characteristics are needed in a secure hash function?	[6]	
	b)	In what order should the signature function and the confidentiality furbe applied to a message, and why?	nction [4]	
		OR		
Q4)	a)	What are the properties a digital signature should have?	[6]	
	b)	What four requirements were defined for Kerberos?	[4]	

Q5)	a)	Give examples of applications of IPSec. What services are provided by IPSec? What is the difference between transport mode and tunnel mode in IPSec? [8]
	b)	What protocols comprise SSL.Draw a neat diagram? What is the difference between an SSL connection and an SSL session? [8]
		OR
Q6)	a)	What services are provided by the SSL Record Protocol? What steps are involved in the SSL Record Protocol transmission? [8]
	b)	What are three benefits that can be provided by an intrusion detection system? What is the difference between statistical anomaly detection and rule-based intrusion detection? [8]
Q7)	a)	What is cybersquatting. Who are cybersquatters and how does it work. [8]
	b)	What are social engineering attacks and classify and explain them? [8]
		OR
Q8)	a)	What is cyberstalking. Explain cyberstalking and explain how it works. [8]
	b)	Classify and explain cybercrimes against property. [8]
Q9)	Writ	e notes on : [18]
	a)	Viruses
	b)	Worms and logic bombs
	c)	Botnets
		OR
Q 10	Writ	e notes on : [18]
	a)	Cloud computing and cybercrimes
	b)	Indian legal perspective on cybercrimes
	c)	Software Piracy