Total No. of Questions : 10]	26	SEAT No.:
P3341	[5461]-601	[Total No. of Pages : 2

B. E. (Information Technology) INFORMATION & CYBER SECURITY (2015 Pattern) (Semester - I)

			(2013 1 attern) (Semester - 1)	
Time	: 2	½ Hours		[Max. Marks : 70
			he candidates:	
	1)	Ansv	ver Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.	
	<i>2)</i>	Neat	diagrams must be drawn wherever necessary.	
	3)	_	res to the right side indicate full marks.	C
	4)	Assu	me suitable data if necessary.	
01)	(۵	Llair	a the sytanded Euclidean algorithm find the multi-	aliantiva invara
Q 1)	a)	of	ng the extended Euclidean algorithm, find the multip	
			21224 1 4221	[5]
		i) (1234 mod 4321	
		ii)	24140 mod 40902	
	b)	State	e with example Euler's theorem.	[5]
		\	OR	
<i>Q2</i>)	a)	Wha	at is the difference between a monoalphabetic	c cipher and a
,			alphabetic cipher? Explain with example.	[5]
	b)	Wha	at four requirements were defined for Kerberos?	[5]
	,			
Q3)	a)	Wha	at characteristics are needed in a secure hash function	on? [5]
Q 3)	-		at protocols comprise SSL? Draw a neat diagram	- A
	b)		erence between an SSL connection and an SSL sess	. ()
		dille		
.	`	****	OR	
Q 4)	a)		That services are provided by IPSec? What is the difference between	
		transport mode and tunnel mode in IPSec? [5]		
	b)	Consider any 5 threats to web security and describe how each is countered by particular feature of SSL i) Brute force attacks ii) Known plaintext attacks iii) Replay attacks iv) Man-in-the-middle attacks v) Password sniffing vi) IP spoofing vii) IP hijacking viii) SYN flooding		
		by p	articular feature of SSL	% [5]
		i)	Brute force attacks	5 '
		ii)	Known plaintext attacks	
		iii)	Replay attacks	
		iv)	Man-in-the-middle attacks	
		v)	Password sniffing	
		vi)	IP spoofing	
			ID bijecting	
		vii)	IP hijacking	
		viii)	SYN flooding	n .
				<i>P.T.O.</i>

Q3) a)	assessment. [8]
b)	List and explain approaches to reduce impact of vulnerability exploitation through planning and preparation. [8]
	OR
Q6) a)	List and explain any four commandments of computer ethics. [8]
b)	Illustrate the significance of IRP, DRP and BCP. [8]
Q7) a)	What is cybersquatting? Who are cyber squatters and how does it work. [8]
b)	Classify and explain cybercrimes against property. [8]
	OR
Q8) a)	What are social engineering attacks and classify and explain them? [8]
b)	Explain in detail Indian legal perspective on cybercrimes. [8]
Q9) a)	What is a phishing attack explain with an example. What are the different types of phishing? [12]
b)	What is cyberstalking? Explain cyberstalking and explain how it works.[6] OR
<i>Q10)</i> a)	List any two network security scanners and explain the significance and working of the same. [12]
b)	What are the properties a digital signature should have? [6]
Q	

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