Total No. of Questions : 8]	SEAT No.:
PA-1622	[Total No. of Pages : 2

[5926]-256

T.E. (Computer)(Honors)

CYBER SECURITY Information and Cyber Security (2015 Pattern) (Semester - I) (310401)

	(2015) Pattern) (Semester - 1) (310401)	
Time: 2	2½ Hours] [Max. Mark	s : 70
Instructi	tions to the candidates:	
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right indicate full marks.	
4)	Assume suitable data, if necessary.	
5)	Use of scientific calculator is permitted.	
Q1) a)	What is cryptographic hash function? How is it useful in cryptographic	ohy?
	List different cryptographic hash functions. Explain in detail any	one
	cryptographic hash function.	[8]
b)	Find the key exchanged between Alok and Bobby considering follow	ving
	data $n = 11$, $g = 5$, $x = 2$, $y = 3$. Find the value of A,B & key K.	[9]
Q2) a)	What are steps carried out in diffie hellman algorithm? List u	ises,
	advantages and disadvantages of diffie hellman algo.	[8]
b)	What do you mean by Asymmetric cryptography algorithm? Explain l	RSA
	algorithm in detail.	[9]
		K.
Q3) a)	Describe different categories of cybercrime with example.	[9]
b)		[9]
,	OR OR	
Q4) a)	What are the difference between quantitative and qualitative risk ana	lysis
~ /	with providing examples.	[9]
b)		[9]
- /		L- J
Q5) a)	What is SSL? How does SSL works? Why is SSL important.	[8]
b)	Describe IPSec protocol with its components and secu	rity
,	services.	[9]
		[-]
	OR	

- What is the firewall? How does it works & explain different types of **Q6)** a) firewalls.
 - What is email security and why it is necessary? Explain any one algorithm b) used for email security. [9]
- What is malware? Enlist different types of malware what precaution needs **Q7**) a) to protect from malware. [9]
 - What is computer worm or virus? How does computer virus spread? b) How to protect against computer virus and norms. [9]

OR

- Enlist different types of IDS. Describe any one type of IDS in **Q8**) a) detail. [9]
 - Define phishing. Explain phishing with types and examples. b) [9]