Total	No. o	of Questions : 8]		
- ,		SEAT NO.		
PD4251		1 [Total No. of Pages : 2		
T.E. (Computer Engineering)				
INFORMATION SECURITY				
(2019 Pattern) (Semester - VI) (310254 (A)) (Elective - II)				
	(2)	(1) Tatter 11) (ST025 1 (11)) (Elective 11)		
Time	: 21/2	Hours] [Max. Marks: 70		
Instructions to the candidates:				
	<i>1)</i>	Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.		
	2)	A Neat diagram must be drawn wherever necessary.		
	<i>3)</i>	Assume suitable data if necessary.		
	<i>4)</i>	Figures to the right indicate full marks.		
Q 1)	a)	Differentiate between Asymmetric key cryptography and symmetric key		
2-)		cryptography? [8]		
	V			
	b)	What are the different types of attacks possible on RSA? Explain in		
		brief?		
	c)	Explain Chinese reminder Theorem? [6]		
	C)	Explain Chinese terminar Theorem: [0]		
		OR		
Q2)	a)	Explain ECC for the finite field with points $y^2 = x^3 + ax + b$?		
	b)	Perform encryption and decryption using RSA algorithm for the following: [8]		
		$P = 3; q = 11; d \ge 7; M = 5$		
	c)	Explain El-Gemmal Algorithm in detail? [6]		
	,			
<i>Q3</i>)	a)	What services are provided by IPSec? What is the difference between		
23)	4)	transport mode and tunnel mode in IPSec? [8]		

b) Explain the MD5 algorithm in brief?

OR [8]

Q4) a)	What is Message Digest? Compare MD-5 with SHA-I?	[8]		
b)	Explain the contents of X.509 format of certificate with diagram?	[8]		
Q5) a)	Write a short note on:	[8]		
	i) Honeypol			
	ii) Distributed DOS attack)		
b)	What are the capabilities and limitations of Firewall?	[8]		
	OR			
Q6) a)	What are Intrusion Prevention policies? Explain in brief?	[8]		
b)	Discuss operating system security in detail?	[8]		
1	8. 8 P. C.			
Q7) a)	Write short note on:	[8]		
	i) Cyber Terrorism			
	ii) Social Engineering			
b)	Write short note on:	[8]		
	i) Keyloggers and Spywares			
	ii) Password Cracking			
	 Write short note on : i) Keyloggers and Spywares ii) Password Cracking OR Write short note on Amendments of IT ACT in India? 			
Q8) a)	Write short note on Amendments of IT ACT in India?	[8]		
b)	Write short notes on keyloggers and spyware? Also explain the sev of the incident?			
(of the incident?	[8]		
	+ + *			
[6403]-46				