Total No	o. of Questions : 10]	SEAT No. :
P3993	³ [5561]-700	[Total No. of Pages : 2
	B.E. (Information Techn	ology)
	INFORMATION AND CYBER	O U /
	(2015 Pattern) (4144	53)
Time: 2	½ Hours]	[Max. Marks : 70
Instructi	ions to the candidates:	
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7	
2) 3)	Neat Diagrams must be drawn wherever necessa Figures to the right indicate full marks.	ry.
3) 4)	Assume Suitable data, if necessary.	
Q1) a)	What is an Intrusion Detection System? I method of Detection?	escribe types of IDS based or [6]
b)	Differentiate between Substitution Cipher	and Transposition Cipher. [4]
	OR	
Q2) a)	What is digital signature? Which securit document using digital signature?	y goals are met by signing a [6]
b)	What is malicious code? State few types disrupt a computer system.	and how each one damage of [4]
Q3) a)	Explain Elliptic Curve Cryptography.	[6]
b)	What is the role of X.509 in cryptography	? [4]
	OR	
0.4)	D 'I ODG EGD GED (OED 'II)	

- Q4) a) Describe CBC, ECB, CFB & OFB with the help of block diagram. [6]
 - b) Solve if p = 7, q=17 using Diffie Hellman algorithm, select a = 6, b = 4.[4]
- Q5) a) List the steps for risk identification and assessment in risk management for Information Security.[8]
 - b) What are the types of Laws? Differentiate between Law and Ethics. [8]

OR

P.T.O.

Q6)	a)	State the commandments for computer ethics. What are the objective and pros and cons of Quantitative and Qualitarisk Assessment?	
	b)		
Q7)	a)	n) Discuss SSL with respect to four phases.	
		i) Establish security capabilities	
		ii) Server authentication & key exchange	
		iii) Client authentication & key exchange	
		iv) Finish	
	b)	Explain IP security protocols AH and EPS.	[8]
		OR	
Q8)	a)	Explain the types of Cyber - Crimes.	[8]
	b)	What are challenges in Social engineering? Explain Cyber Stalking?	[8]
Q9)	a)	Write a short note on Indian IT act 2000 and amendments in 2008.	
	b)	Explain working of Proxy Servers and Anonymizers?	
		OR	
Q10) a)	What is DoS & DDoS Attacks? Explain with suitable examples?	
	b)	Write short note on any three:	
		i) Nmap	
		ii) Wireshark	
		iii) Nikito	
		iv) Metasploit	
		v) Aircrack	
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