Total No. of Questions : 10]	9	SEAT No.:
P3993	155611-700	[Total No. of Pages : 2

B.E. (Information Technology) INFORMATION AND CYBER SECURITY

(2015 Pattern) (414453) Time: 2½ Hours] [Max. Marks: 70 Instructions to the candidates: Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10. *2*) Neat Diagrams must be drawn wherever necessary. 3) Figures to the right indicate full marks. Assume Suitable data, if necessary. *Q1*) a) What is an Intrusion Detection System? Describe types of IDS based on method of Detection? Differentiate between Substitution Cipher and Transposition Cipher. [4] OR What is digital signature? Which security goals are met by signing a **Q2)** a) document using digital signature? What is malicious code? State few types and how each one damage or b) disrupt a computer system. **Q3)** a) Explain Elliptic Curve Cryptography. What is the role of X.509 in cryptography? b) OR Describe CBC, ECB, CFB & OFB with the help of block diagram. [6] **Q4)** a) Solve if p = 7, q=17 using Diffie Hellman algorithm, select a = 6, b = 4. [4] b) List the steps for risk identification and assessment in risk management **Q5)** a) for Information Security. [8] What are the types of Laws? Differentiate between Law and Ethics. [8] b)

Q 6)	a)	State the commandments for computer ethics. [8]		
	b)	What are the objective and pros and cons of Quantitative and Qualitative risk Assessment?	ve [8]	
Q7)	a)	Discuss SSL with respect to four phases.	[8]	
		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]	
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Q9)	a)	Write a short note on Indian IT act 2000 and amendments in 2008. [[9]	
	b)	Explain working of Proxy Servers and Anonymizers? [[9]	
		OR		
Q10) a)	What is DoS & DDoS Attacks? Explain with suitable examples? [9] \	
	b) Write short note on any three:		9]	
		i) Nmap		
		ii) Wireshark		
		iii) Nikito		
		iv) Metasploit		
		v) Aircrack		
		Se. v		
[556	51]-7	What is DoS & DDoS Attacks? Explain with suitable examples? Write short note on any three: i) Nmap ii) Wireshark iii) Nikito iv) Metasploit v) Aircrack		