Total No. of Questions : 10]

P3993

SEAT No. :

[Total No. of Pages : 2

[5561]-700 B.E. (Information Technology) INFORMATION AND CYBER SECURITY (2015 Pattern) (414453)

Time : 2½ Hours]

[Max. Marks : 70

Instructions 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, Q.9 or Q.10.
- 2) Neat Diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume Suitable data, if necessary.

Q1) a) What is an Intrusion Detection System? Describe types of IDS based on method of Detection? [6]

- b) Differentiate between Substitution Cipher and Transposition Cipher. [4] OR
- Q2) a) What is digital signature? Which security goals are met by signing a document using digital signature? [6]
 - b) What is malicious code? State few types and how each one damage or disrupt a computer system. [4]
- *Q3)* a) Explain Elliptic Curve Cryptography.
 - b) What is the role of X.509 in cryptography?

OR

- 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

[4]

Q6) a)	State the commandments for computer ethics.	[8]
b)	What are the objective and pros and cons of Quantitative and Qualitative risk Assessment?	tive [8]
Q 7) a)	Discuss SSL with respect to four phases.	[8]
	i) Establish security capabilities	\sim
	ii) Server authentication & key exchange	
	iii) Client authentication & key exchange	
	iv) Finish	
b)	Explain IP security protocols AH and EPS.	[8]
	OR OR	101
<i>Q8</i>) 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.	[9]
y , a) b)	Explain working of Proxy Servers and Anonymizers?	[9]
0)		
<i>Q10</i>)a)	What is DoS & DDoS Attacks? Explain with suitable examples?	[9]
b)	Write short note on any three:	[9]
	Write short note on any three: i) Nmap	
	ii) Wireshark	
	iii) Nikito	
	iv) Metasploit	
	v) Aircrack	
S		
	OR 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 2 Augustus and a second seco	
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