Total No.	of Questions : 12] SEAT No. :
P3445	
	B.E. (Computer Engg)
	d:INFORMATION SECURITY
	(2008 Pattern) (Semester - II) (Elective - IV)
Time: 3	•
Instruction 1)	ons to the candidates: Answer three questions from section I and three questions from section II.
2)	Answers to the two sections should be written in separate answer books.
3)	Neat diagrams must be drawn wherever necessary.
	SECTION - I
Q1) a)	Enlist and explain different standards to information security. [6]
b)	What is cryptography? discuss different kinds cryptography in brief.[6]
c)	Which crytography is called as classical cryptography?
	Explain any one classical cryptography in short. [6]
	OR
Q2) a)	What are professional issues of information security? Discuss it in brief. [6]
b)	Explain standard security architecture in detail. [6]
c)	What types of security are need for information in computer? Explain in short. [6]
Q3) a)	What is IDEA? Explain the working principle of IDEA in the form of algorithm. [8]

OR

Explain RC5 encryption algorithm in details.

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[8]

b)

Q4)	a)	Discuss different mechanisms of key distribution in detail.	[8]
	b)	Explain block ciphering modes operations with suitable diagram.	[8]
Q5)	a)	What is public key cryptography? Explain any one algorithm of public key cryptography.	blic [8]
	b)	Write and explain the algorithm of ECC cryptography.	[8]
		OR	
Q6)	a)	Differentiate Mac and Hash functions with suitable examples.	[8]
	b)	What is PKI? Explain PKI with suitable examples.	[8]
		SECTION - II	
Q7)	a)	Differentiate Mac and Hash functions with suitable examples.	[6]
	b)	What is PKI? Explain PKI with suitable examples.	[6]
	c)	What are the responsibilities of X.509 standard?	[6]
		OR	
Q8)	a)	What is digital signature? Why is a need of it? Discuss any algorithm digital signature.	n of [6]
	b)	Explain working principles of HMAC?	[6]
	c)	Compare all authentication functions with suitable parameters.	[6]
Q9)	a)	Differentiate TLS and SSI with suitable parameters.	[8]
	b)	What are the firewall-design principles? Discuss in short.	[8]
		OR	
[4959]-22		22	

- Q10)a) What is intrusion prevention? How can prevent network from intrusions. [8]
 - b) Differentiate Intrusion detection and intrusion prevention system. [8]
- Q11)a) Discuss Electronic commerce security in detail. [8]
 - b) Explain PEm in details. [8]

OR

Q12) Write short notes of the following (Any Two) [16]

- a) S/MIME
- b) PGP
- c) Web Security

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