Total No. of Questions	:	12]	
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B.E. (Information Technology) INFORMATION ASSURANCE & SECURITY

(2008 Pattern) (Semester-I) Time: 3 Hours] [Max. Marks:100 Instructions to the candidates: 1) Answer of question 1 or 2, 3 or 4, and 5 or 6 from section-I and question 7 or 8,9 or 10 and 11 or12 from section-II. 2) Answers to the two sections should be written in separate answer books. Neat diagrams must be drawn wherever necessary. 3) Figures to the right side indicate full marks. Use of Calculator is allowed. *5*) Assume Suitable data if necessary. *6*) **SECTION-I** What is attack? Explain different types of attacks? [10] **Q1)** a) Illustrate how to share and split the secret and its significance in some b) application. [8] OR What is Chinese remainder theorem? Explain with examples. **Q2)** a) [10] What are security goals? Explain various types of Authentication [8] b) Q3) Describe the different modes of operation (ECB, CBC, CFB, OFB & CTR mode) with the help of block diagram. [16] Write working of AES algorithm in detail. **Q4)** a) [8] Describe the advantages and disadvantages of symmetric and asymmetric b) key cryptography. [8] **Q5**) a) List and state the channels of key distribution in symmetric and asymmetric key systems. [8] Illustrate the Diffiee Hellman Key exchange protocol. [8] b) OR What is PKI? Explain the different PKI architectures. [8] *Q6*) a)

What problem was Kerberos designed to address. Describe Kerberos

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[8]

SECTION-II

Q7)	a)	What is IPSEC? How does AH and ESP differ while working unnel mode and Transport mode.					
	b)	What do you mean by internet key exchange protocol? Explain its different phases? [8]					
			OR				
Q8)	a)	Wha	at is SSL? Explain the SSL architecture in detail? [1	10]			
	b)	Exp	lain different IDS methods with one example each.	[8]			
Q9)	a)	Writ	te a short note on smart card and chip card transaction.	[8]			
	b)	Exp	lain domains of ISO 27001 security standard and state its purpose. OR	[8]			
010	((a)	Even		ant			
Q10	y a)	•	lain and draw model for ISMS(Information Security Managemem) of PDCA Cycle (Plan, Do, Check, Act phase).	[8]			
	b)	•	· · · · · · · · · · · · · · · · · · ·	[8]			
	0)	IIIus	strate idea of Electronic Cash.	լսյ			
Q 11,) Writ	e a sl	hort note on following (any four)	16]			
Q		a)	Electronic evidence.				
		b)	Internet fraud				
		c)	Identity theft				
		d)	Computer Forensic				
		e)	Cyber tourism				
			OR				
Q12	<i>')</i> a)	Illus	strate Industrial Espionage in IT industry.	[8]			
	b)	List	some of the cyber crime and respective penalties.	[8]			

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