Total No. of Questions: 10]	26	SEAT No.:	_
P3985	[5561]-689	[Total No. of Pages	: '

B.E. (Computer Engineering) INFORMATION AND CYBER SECURITY (2015 Pattern) (Semester - II) (410251)

	(2015 Fattern) (Semester - 11) (410251)	
	½ Hours] [Max. Mark,	s : 70
instructi 1)	ions to the candidates: All questions are compulsory.	
2)	Figures to the right side indicate full marks.	
7		
Q1) a)	List and explain various elements of Information security.	[5]
b)	Using Hill Cipher encrypt the message 'ESSENTIAL'. The key encryption is 'ANOTHERBZ'. OR	for [5]
Q2) a)	What is steganography? What are the applications and limitation steganography?	ns of [5]
b)	Use Transposition Cipher to encrypt plain text 'I Love my India' use the key 'HEAVEN'	and [5]
	[Use single columnar transposition]	(())
Q3) a)	Discuss elliptic curve cryptography in detail.	[5]
b)	What is block Cipher? Explain counter mode of block Cipher. OR	[5]
Q4) a)	What is authentication? Explain various methods authentication.	[5]
2 / a) b)		[5]
0)	Explain working of AES in detail.	[S]
Q5) a)	Discuss the working of IPSec. What are the benefits of IPSec.	[6]
b)	What is VPN? Explain types of VPN.	[6]
c)	Compare PGP, MIME and S/MIME.	[6]
	OR	

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Q6)	a)	Differentiate between IP-V4 and IP-V6.	[4]	
	b)	Explain secure socket layer handshake protocol in detail.	[7]	
	c)	Explain ISAKMP protocol of IPSec with header format.	[7]	
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() 7)	٥)	What are the various types of firewall. Discuss limitations of firewall	[Q]	
<i>Q7)</i>				
	b)	What is trusted system.	[4]	
	c)	OR	[4]	
(10)	۵)			
Q 8)	a)	Explain need and challenges of intrusion detection system. Define signate based IDS.	ure [8]	
	b)	What is access control security services.	[6] [4]	
	c)	Explain packet filtering firewall.	["] [4]	
	C)	Explain packet intering frewan.	ניין	
(10)	٥)	Explain personally identifiable information PII. Describe PII impact lev	7 21 0	
Q 9)	a)	with examples.	[8]	
	b)	What is cyber stalking? How to identify and detect cyber stalking.	[8]	
	0)	OR	[o]	
Q10	la)	What are different phases of cyber forensics? Explain with suita	ble	
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	b)	Discuss PII confidentiality safeguards.	[8]	
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[556	[1]-6	Discuss PII confidentiality safeguards. ***B**** ***B**** ***B*** ***B*		