Total No.	of	Questions	:10]
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[Total No. of Pages : 2

B.E. (Computer Engg.) INFORMATION AND CYBER SECURITY

(2015 Course) (Semester - II) (410251) (End Sem)					
T:	. 21	(Hamel S)	. 70		
		[Max. Marks ons to the candidates:	: 70		
	icii. [)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.			
	<u>(</u>)	Neat diagrams must be drawn whenever necessary.			
3	3)	Figures to the right indicate full marks.			
4	4)	Assume suitable data, if necessary.			
Q 1)	a)	Describe linear and differential cryptanalysis with suitable example	[5]		
	b)	Distinguish between Substitution and transposition ciphers	[5]		
		OR OR			
Q2)	a)	Explain Operational model of security in detail.	[5]		
	b)	What is Transposition Cipher? Use Transposition Cipher to encrypt	the		
		plain text "WE ARE THE BEST" use key "HEAVEN"	[5]		
<i>Q3</i>)	a)	Explain digital signature standard.	[5]		
	b)	Describe Elliptic Curve Cryptography	[5]		
		OR	2		
Q4)	a)	What is Block cipher? Explain counter mode of block cipher.	∮ 5]		
	b)	Write note on application and limitation of stenography.	[5]		
		A CAN			
Q 5)	a)	What is Backdoors and Key Escrow in PGP?	[9]		
	b)	Describe IPsec protocol with its components and security services.	[8]		
		OR OR			
Q6)	a)	Explain OAKLEY key determination protocol.	[9]		
	b)	Explain Secure Electronic Transaction in detail.	[8]		
Q 7)	a)	Describe briefly how IPsec works and enlist its applications. Distingu	ıish		
21)	u)	between tunnel and transport mode of IPsec	[8]		
	b)	Explain in detail password management practices.	[9]		
		OR OR			
			<i>T.O.</i>		

Q8) a	a)	What are various types of firewall? Discuss limitations of firewall.	[9]
ŀ	o)	Explain need and challenges of intrusion detection system. De signature based IDS.	fine [8]
Q9) a	a)	Discuss PII confidentiality safeguards.	[8]
ł)	What is cyber stalking? How to identify and detect cyber stalking.	[8]
		OR OR	
Q10)a	a)	Explain personally identifiable information PII. Describe PII im levels with examples	pact [8]
ł)	Write note on Information Protection Law: Indian perspective	[8]
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