Tota	l No	o. of Questions : 8] SEAT No. :
PD	42	[Total No. of Pages :
		[6403]=57
		T.E. (AT & DS)
		CYBER SECURITY
		(2019 Pattern) (Semester - VI) (317530)
		4/2 Hours] [Max. Marks : 7
	иси 1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q5 or Q6, Q7or Q8.
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.
	<i>3)</i>	Figures to the right indicate full marks.
Q 1)	a)	Write short note on X.509.
	b)	What is Digital Signature Standard? Explain the DSS approach. [6
	c)	Perform encryption and decryption using RSA algorithm for $p = 11$
	,	q = 3, e = 3 and M = 7.
		OR
Q2)	a)	Identify and explain the various methods of authentication. [5]
	b)	Explain the operations of Kerberos. [6]
	c)	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prim
		value $q = 17$ and primitive root = 5. If Alice's secret key is 4 and Bob
		secret key is 6, what is the secret key they exchanged?
		ONE STATE OF THE S
Q3)	a)	What is VPN? Explain types of VPN.
	b)	Explain IPsec also state the advantages of IPsec. [6
	c)	Distinguish between PGP and S/MIME. [6
		OR OR
Q4)	a)	Explain ISAKMP protocol of IPSec. [6
	b)	Explore Secure Socket Layer Handshake protocol in detail. [6]

c) Distinguish between IDS and IPS.

P.T.O.

[6]

Q 5)	a)	List and explain types of intrusion detection system (IDS)	[6]
	b)	Enlist the various types of firewall.	[5]
	c)	Explain:	[6]
		i) Dictionary Attack	
		ii) Social Engineering attack	
		iii) Brute Force attack	
		OR	
Q6)	a)	What is Attribute-Based Access Control (ABAC)	[5]
	b)	What is trusted system? Explain in brief.	[6]
	c)	Differentiate packet filtering router and stateful Inspection firewall.	[6]
Q 7)	a)	List types of VoIP hacking and Explore any 3? Describe a few coumers to prevent remote connectivity and VoIP hacking.	nter
	b)	Who are cyber criminals? What are types of cybercrimes?	[6]
	c)	Explain Personally Identifiable Information PII.	[4]
		QR	ניין
Q8)	a)	What is cyberstalking? Compare between cyberstalking and physical cyberstalking and physical cyberstalking and physical cyberstalking and physical cyberstalking.	sical
ره ک	α)	stalking.	[8]
	b)	Explain the terms:	[6]
		i) Virus	3
		ii) Phishing iii) Spoofing iv) Mahila haakiisa	
		iii) Spoofing	5
		iv) Mobile hacking	
		v) Internet Pharming	
		v) Internet Pharming vi) Cyber Forensic	
	c)	v) Internet Pharming vi) Cyber Forensic Compare Security and Privacy.	[4]
	c)	v) Internet Pharming vi) Cyber Forensic Compare Security and Privacy.	[4]
	c)	v) Internet Pharming vi) Cyber Forensic Compare Security and Privacy.	[4]
	c)	vi) Cyber Forensic Compare Security and Privacy.	[4]
	c)	vi) Cyber Forensic Compare Security and Privacy.	[4]
	c)	vi) Cyber Forensic	[4]