## No. of Printed Pages : 2

## SARDAR PATEL UNIVERSITY

M.Sc. (Information Technology) SEMESTER-III PS03CINT23 – Information Security Saturday, 27<sup>TH</sup> October 2018

Time: 2:00 P.M. To 5:00 P.M.	Total Marks: 70

Q.1	Give answers of following Multiple choice questions:		uestions:	[8]	
1.		Each device in the internet must have a unique address.			
		a. IP b. Default c. Gate	eway d. None of these		
Ņ.	2.	The file is used for mapping IP addr	esses to host names.		
		a. /etc/services b. /etc/hosts c. /etc	/networks d. /etc/protocols		
	3.	Packet Filtering Firewalls works at the	layer of the OSI Model.		
		a. Application b. Network c. Ph	ysical d. TCP		
	4.	4utility tests connectivity between two hosts			
		a. ping b. netstat c. ifo	config d. finger		
	5.	service is used to identify the true s	ender,		
. :		a. Integrity b. Authentication c.	Authorization d. Confidentiality		
\$1	6.	VPN stands for			
ş.,		<ul><li>a. Virtual Private Node</li><li>b. Vir</li><li>c. Virtual Private Network</li><li>d. Virtual Private Network</li></ul>	tual Public Node ual Publie Network		
-	7.	SSL stands for			
			cure Socket Layer gment Secure Layer		
	8. Which of the following is not a type of firewall?				
		<ul><li>a. Circuit-level gateway</li><li>b. Us</li><li>c. Application-level gateway</li><li>d. par</li></ul>	•		
Q.2		Do as directed (Any Seven)		[14]	
	1. 2. 3. 4. 5.	Convert plain text "GOOD" into cipher text with caesar cipher with key = 3.  Main difference between IP spoofing and IP sniffing.  Give the full forms of PGP and TCP.  Define: Encryption, Decryption  List out general techniques that firewalls use to control access and enforce the site's security policy.  List at least two firewall software names.			
	7.	Briefly explain any two features of windows s			
	8. 9.	Explain various forms of Authentications are a Explain dig command in brief.	ivåilable under HS.		

Q.3	[A]	Explain TCP/IP Daemons Administration Commands	
	[B]	Explain the architecture to Securing VPN in detail.	[6]
		OR	
:	[B]	Explain network configuration files.	[6]
Q.4	[A]	List firewall types. Explain advantages and disadvantages of each firewall type.	[6]
	[B]	Explain PGP in detail.	[6]
		OR	
	[B]	Define: Firewall. Explain any one firewall type in detail.	[6]
Q.5	[A]	Explain Intranet related features of Windows server.	[6]
	B	Explain Proxy Server in brief and explain IIS Security features in detail	[6]
		OR	
	[B]	Explain how challenges and response mechanism works for Windows NT Logon?	[6]
Q.6	[A]	Explain RSA algorithm with an example.	[6]
	[B]	List symmetric key techniques. Explain any one technique in detail.	[6]
		OR CONTRACTOR OF THE CONTRACTO	
	[B]	Define the following terms.	[6]
		Public key, Private key, Cryptography, Digital certificate, Cryptanalysis, Certificate Authority	
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