E	nrollm	ent No: _				Exam Sea	t No:	· · · · · · · · · · · · · · · · · · ·	_
			C.U.	SHAF	I UI	NIVE	RSITY	•	
			$\mathbf{W}$ i	inter Ex	xami	nation	-2018		
S	ubject l	Name : In	nformation S	Security					
S	Subject Code: 4TE07ISE1				Branch: B.Tech (IT)				
S	emestei	r:7	Date : (	06/12/2018		<b>Time: 10</b>	:30 To 01:30	Marks: 70	
Ir	(2) I (3) I	Use of Pronstruction  Oraw near	ns written o	n main answe nd figures (i	er book	are strictly t	ic instrument i to be obeyed. places.	s prohibited.	
Q-1		Attemp	t the follow	ing question	ıs:				(14
	a)	_		y,y y by authoriz			at computer s	ystem assets	
	<b>b</b> )	B) In C) A In comp	er system on				nat the inform	ation in a	
	c)	B) C) D) Which of		7	endent r	nalicious pr	ogram that nee	ed not any host	
	•	B) C) D)	Trojan horse Virus Worm			. ,	c.		
	d)	triggere A) T B) T C) L		_		-	equence of inpunlikely seque	out or is nce of events.	



e)	Which type of firewall includes a router to direct the flow of network traffic?
	A) Packet-filtering
	B) IP spoofing
	C) Application level
	D) Hardware level
	b) Hardware 18761
f)	What is the purpose of DoS attack
	A) Exploit the weaknesses in TCP/IP Stack
	B) To execute a Trojan on the system
	C) To overload a system so it is no longer operational
	D) To shut down the services remotely by turning them off
g)	What is the most important activity in system hacking?
	A) Information gathering
	<ul><li>B) Cracking passwords</li><li>C) Covering tracks</li></ul>
	D) Escalating Privileges
	D) Escalading Hivneges
h)	Phishing is a form of
	A) Spamming
	B) Identify theft
	C) Impersonation
	D) Scanning
i)	What is the statement for taking advantage of weakness in the security of an IT
	system?
	A) Threat
	B) Attack
	C) Exploit
	D) Vulnerability
<b>j</b> )	IPSec is designed to provide the security at the
	A) Transport layer
	B) Network layer
	C) Application layer
	D) Session layer
k)	WPA2 is used for security in
	A) Ethernet
	B) Bluetooth
	C) Wi-Fi
	D) None of the mentioned
<b>l</b> )	When a DNS server accepts and uses incorrect information from a host that has



no authority giving that information, then it is called

- A) DNS lookup
- B) DNS hijacking
- C) DNS spoofing
- D) None of the mentioned
- E)
- m) Network layer firewall works as a
  - A) Frame filter
  - B) Packet filter
  - C) Both frame filter and packet filter
  - D) None of the mentioned
- n) When the firm's purpose for their information infrastructure is to make its data and information available to those who are authorized to use it, the firm is seeking the objective of
  - A) Confidentiality
  - B) Availability
  - C) Authorization
  - D) Integrity

## Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions	<b>(14)</b>
	a	Explain different principles of security	7 Mrks
	b	Differentiate between private key cryptosystem and public key cryptosystems	7 Mrks
Q-3		Attempt all questions	(14)
	a	How can an institute or a company can safeguard himself from SQL injection?	7 Mrks
	b	Explain stack-based buffer overflow in details also discuss about protection mechanism	7 Mrks
Q-4		Attempt all questions	(14)
	a	What is self-replicating malicious code? Explain its countermeasures	7 Mrks
	b	Explain password selection strategies	7 Mrks
Q-5		Attempt all questions	(14)
	a	What is the difference between DoS and DDoS attacks? Which one is severe? Justify	7 Mrks
	b	What is the difference between spoofing and sniffing? Explain with example	7 Mrks
Q-6		Attempt all questions	(14)
	a	What do you mean by digital evidences? Explain forensic auditing in detail	7 Mrks



	b	What are the current common issues in Computer Forensics?	7 Mrks
Q-7		Attempt all questions	(14)
	a	Explain chain of custody concept in detail	7 Mrks
	b	Explain Indian IT Act 2000 in detail	7 Mrks
Q-8		Attempt all questions	(14)
	a	Differentiate between network-based IDS and Host based IDS emphasizing on their advantages and disadvantages.	7 Mrks
	b	Differentiate between Intrusion prevention system versus Intrusion detection	7 Mrks

