Seat No: _____

Enrollment No:

PARUL UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

B.Tech. Winter 2019 - 20 Examination

Subject Code: 03105346 Time: 10:30 am to 1:00 pm

Subject Name: Cyber Security Total Marks: 60

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- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

Q.1 Objective Type Questions.

(15)

- 1. Network layer firewall has two sub-categories as
 - a) stateful firewall and stateless firewall
 - b) bit oriented firewall and byte-oriented firewall
 - c) frame firewall and packet firewall
 - d) none of the mentioned
- 2. A digital signature needs ansystem.
 - a) symmetric key
 - b) asymmetric key
 - c) either a or b
 - d) neither a or b
- 3. Which of the following malicious program do not replicate automatically?
 - a). Trojan Horse
 - b). Virus
 - c). Worm
 - d). Zombie
- 4. To Hide Information Inside A Picture, What Technology Is Used?
 - a). Rootkits
 - b). Bitmapping
 - c). Steganography
 - d). Image Rendering
- 5. What is the proper command to perform banner grabbing in Nmap on localhost?
 - a). nmap -sT --script=banner 127.0.0.1
 - b). nmap -sL --banner=script 127.0.0.1
 - c). nmap -sV --script=banner 127.0.0.1
 - d). nmap -sS --banner=script 127.0.0.1
- 6. In port scanning, a port is always associated with the _____ (typically of host system) & the type of _____ employed for communication.

	7. Banner grabbing is a one type of				
	8. A HTTP connection uses port whereas HTTPS uses port a	and invokes			
	SSL.				
	9. A firewall need to be so that it can grow with the network it protects.				
	10. The two most widely used VPNs are and				
	11. Write Full Form of SSL.				
	12. What is CIA?				
	13. What is Firewall?				
	14. Define Nmap.				
	15. Define Spyware.				
Q.2	Answer the following questions. (Attempt any three)	(15)			
	A) What is Cyber Crime? Explain Types of Cybercrime?				
	B) Explain Network sniffing.				
	C) What is VPN? Explain types of VPN.				
	D) Write a short note on Denial of Service attack.				
Q.3	A) What is Vulnerability? Explain Types of vulnerability scanning in brief.	(07)			
	B) Explain Following terms:	(08)			
	1. Worm				
	2. Virus				
	3. Password cracking				
	4. Trojan				
	OR				
	B) Describe types of firewall in detail.	(08)			
Q.4	A) Explain Network Address Translation in details.	(07)			
	OR				
	A) Explain the brute force attack. How to prevent it?				
	B) What is "Information System"? Explain types of Information System in brief.	(08)			