

Roll	Number:		
		gineering and Technology, Patiala nputer Science and Engineering	
Auxiliary Exam B.E. COE/CSE (Third Year): Semester-V		Course Code: UCS534 Course Name: Computer and Network Security	
Augu	st 16, 2022, MM:50	Name of Faculty: Dr. Tarunpreet Bhatia	
Note:	Attempt all parts of a question at one	e place. Assume missing data, if any, suitably.	
Q.1	a) List out the steps to launch a DNS cache poisoning attack, in which an attacker (IP 192.168.3.300) intercepts a communication channel between a client (IP 192.168.1.100) and a server computer belonging to the website www.estores.com (IP 192.168.2.200). b) Discuss 4 ways to protect your organization from DNS poisoning attacks?		(6)
			(4)
Q.2	Write the rules using a Linux command a) Accept packets from a trusted II b) Deny ssh service c) Accept tcp packets on destination d) Block connections on ports 23 a 192.168.0.6	P Address (say 192.168.0.7)	(2*5)
2 .3	e) List all the rules applied on your	r system and delete all the rules	
4	is commonly used on the Internet. a) What port is reserved for HTT TLS Handshake protocol.	P over TLS? Briefly explain the purpose of the	(2)
		provided to TLS connections by the TLS Record	(2)
	c) How are the TLS Handshake Protod) As part of the Handshake Proto	otocol and the TLS Record protocol connected? col the client and server negotiate which 'cipher tances is this negotiation useful? Why can this curity weaknesses	(3)
Q.4	UID program runs, it assumes the own	grams face and how they can be attacked if there in with the help of an example.	(5+5)
Q.5	Explain with an example how ASLR as	nd Stack Guard can be used as a defence against	(10)

buffer overflow attacks? Is it possible to bypass ASLR and Stack Guard? Justify your

answer.