

Seat No.: _____

Enrolment No. _____

NATIONAL FORENSIC SCIENCES UNIVERSITY
M.Sc. -CS - Semester -I - JULY-2023

Subject Code: CTMSCS SII L1**Date: 05/07/2023****Subject Name: Network Security Lab****Total Marks: 50****Time: 30 Minutes****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Parts of question should be attempted at the same place.

SET-1: Roll Number ending with 1, 5, 9, 13, 17

SET-2: Roll Number ending with 2, 6, 10, 14, 18

SET-3: Roll Number ending with 3, 7, 11, 15, 19

SET-4: Roll Number ending with 4, 8, 12, 16, 20

			Marks
SET-1	Q.1	Write a Python program that implements the Caesar cipher encryption algorithm. Demonstrate its usage by encrypting and decrypting a given message.	25
	Q.2	You suspect that someone on your network is sending sensitive information over an unencrypted connection. How can you use Wireshark to capture and analyze network traffic to verify your suspicions?	
SET-2	Q.1	Set up a basic network topology in Cisco Packet Tracer consisting of two routers and two computers. Configure the routers to enable communication between the computers.	25
	Q.2	You suspect that a particular device on your network is infected with malware. How can Wireshark help you identify any suspicious network activity associated with that device?	
SET-3	Q.1	A new employee brings their own device (BYOD) and wants to connect to the company network. Explain how DHCP assists in assigning an IP address to the device.	25
	Q.2	A suspicious file has been downloaded on your network, and you want to analyze its behavior. How can Wireshark help you analyze the network traffic generated by the file?	
SET-4	Q.1	Implement a Python program that generates a digital signature for a file using a public-key cryptography algorithm like RSA.	25
	Q.2	A suspicious file has been downloaded on your network, and you want to analyze its behavior. How can Wireshark help you analyze the network traffic generated by the file?	

END OF PAPER

Seat No.: _____

Enrolment No. 2034

NATIONAL FORENSIC SCIENCES UNIVERSITY
M.Sc. -CS - Semester -I - Jan-2023

Subject Code: CTMSCS SI L1

Date: 18/01/2023

Subject Name: Essentials of Cyber Security and Cyber Warfare Lab

Total Marks: 50

Time: 30 Minutes

Instructions:

1. Write down each question on separate page.
2. Attempt all questions.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.
5. Parts of question should be attempted at the same place.

34 20

SET-1: Roll Number ending with 1, 5, 9, 13, 17

SET-2: Roll Number ending with 2, 6, 10, 14, 18

SET-3: Roll Number ending with 3, 7, 11, 15, 19

SET-4: Roll Number ending with 4, 8, 12, 16, 20

			Marks
Q.1	SET-1	Using a packet sniffer to capture and analyze network traffic to reveal sensitive information.	25
	SET-2	Create the user NFSU-your Name. What is Windows Integrity Control (WIC)? Also set various levels of WIC with respect to trustworthiness to your user name.	
	SET-3	Identifying vulnerabilities of your Machines.	
	SET-4	Locating target machine, and identifying its OS, open ports, types of services it runs.	
Q.2	SET-1	You receive an email from your bank telling you there is a problem with your account. The email provides instructions and a link so you can log into your account and fix the problem. What should you do?	25
	SET-2	With the help of example explain ipconfig and ifconfig?	
	SET-3	Explain CHMOD, CHROOT and CHOWN in terms of Linux OS.	
	SET-4	What is the significance of iptable in the Linux hardening? Also provide the example.	

END OF PAPER



National Forensic Sciences University, Goa Campus
Mid-Semester Examination

26 ½

Program Name – M.Sc. Cyber Security/ M.Sc. DFIS Sem – I Date- 18-11-2022

Subject Name :- Introduction to Forensic Science and Law

Subject Code- CTMSCS SI P5/ CTMSDFIS SI P5

Time- 10:30 am to 12:00 pm (1.5 Hours)

Max. Marks- 50

Instructions - 1) Answer all questions. 2) Assume suitable data.

Q.1	Answer any four of the following:	20 marks
	a. What are finger prints? Enlist the various functions of Central Finger Print Bureau.	<u>5 marks</u>
	b. Discuss the various duties of forensic scientists.	<u>5 marks</u>
	c. Describe the organizational set up of Forensic Science Laboratories in India.	5 marks
	d. Write notes on the organization and functions of FBI.	<u>5 marks</u>
	e. What is INTERPOL? What are the functions of INTERPOL?	<u>5 marks</u>
Q.2	Answer all the following:	15 marks
	a. What is CCTNS and how is it related to NCRB? List out the objectives of CCTNS?	5 marks
	b. Give an account of history of development of Forensic Science in India.	5 marks
	c. Write notes on Bureau of Police Research & Development.	<u>5 marks</u> <u>3</u>
Q.3	Attempt a and b:	15 marks
Q.3 a.	I. State the six principles of Forensic Science and explain the same with one example each.	<u>8 marks</u> <u>6 ½</u>
	OR	
	II. Write notes on any three techniques used in forensic science.	8 marks
Q3 b.	I. Explain the significance of mobile forensic laboratory in crime scene investigation.	<u>7 marks</u> <u>5</u>
	OR	
	II. What is Forensic Science? Explain the significance of any three branches of forensic science in investigation of crime.	7 marks

End of Paper



National Forensics Sciences University, Goa Campus Mid- semester Examination

Branch – M.Sc. Cyber Security Sem – I Date- 17-11-2022

Subject Name- Artificial Intelligence Subject Code- CTMCS51P4

Time- 1.5 Hours Max.Marks- 50

Instructions - 1) Answer all questions. 2) Assume suitable data.

Q.1	Solve any four	20 marks																				
	a. Define orthogonal vectors, orthonormal vector and orthogonal matrix. Given two vectors, how can you determine orthogonality?	5 marks																				
	b. Consider the following set of points: {(10, 20), (20, 40), (30, 60)}. Find the least square regression line for the given data points. <i>7+6x</i>	5 marks																				
	c. Define instance based learning. Identify and briefly explain any machine learning model that falls under the category of instance based learning.	5 marks																				
	d. How can Pearson's correlation be applied to determine the relationship between two variables? Compare Spearman's and Pearson's correlation measure.	5 marks																				
	e. List any two measures used to determine the spread of data. Compute these two measures on the following data. 10, 20, 30, 40, 50	5 marks																				
Q.2	Attempt all	15 marks																				
	a. What is overfitting in machine learning? How can you determine if a model is overfitting? Describe any three ways to avoid overfitting.	5 marks																				
	b. Discuss in detail any one machine learning model used for prediction.	5 marks																				
	c. Apply Naïve Bayes classification to the data of fruits provided below to determine the class for an unknown data input (Appearance = Undamaged and Quality = Unripe and Size = Small)	5 marks																				
	<p style="text-align: center;">Table 1 Fruit Data</p> <table border="1"><thead><tr><th>Appearance</th><th>Quality</th><th>Size</th><th>C</th></tr></thead><tbody><tr><td>Undamaged</td><td>Unripe</td><td>Big</td><td>I</td></tr><tr><td>Undamaged</td><td>Ripe</td><td>Small</td><td>I</td></tr><tr><td>Damaged</td><td>Unripe</td><td>Big</td><td>II</td></tr><tr><td>Undamaged</td><td>Unripe</td><td>Small</td><td>II</td></tr></tbody></table>	Appearance	Quality	Size	C	Undamaged	Unripe	Big	I	Undamaged	Ripe	Small	I	Damaged	Unripe	Big	II	Undamaged	Unripe	Small	II	
Appearance	Quality	Size	C																			
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Undamaged	Ripe	Small	I																			
Damaged	Unripe	Big	II																			
Undamaged	Unripe	Small	II																			
Q. 3	Attempt Q3a and Q3b	15 marks																				
Q.3 a	Attempt any one																					
Q.3 a	Explain any one unsupervised learning model in detail. List and explain any 5 applications of unsupervised learning model.	8 marks																				
	OR																					

<u>Q.3 a</u>	Explain the different types of the machine learning system	8 marks
Q.3 b	Attempt any one	
Q3 b	Illustrate with a help of an example the working of a Perceptron model. List a shortcoming of the perceptron model. How can the mentioned shortcoming be overcome?	7 marks
OR		
<u>Q3 b</u>	Compute the values for True Positive , True Negative , Sensitivity , Specificity , Precision , Recall and F1-Score for the following confusion matrix.	7 marks

		Predicted	
		Sunny	Rainy
Actual	Sunny	TP 1984	FN 447
	Rainy	FP 336	TN 107

accuracy $\frac{TP + TN}{TP + FN + FP + TN}$

Precision $\frac{TP}{TP + FP}$

Recall $\frac{TP}{TP + FN}$

Sensitivity $\frac{TP}{TP + FN}$

specificity $\frac{TN}{TN + FP}$

F1 $\frac{2 \times \text{Precision} \times \text{Recall}}{\text{Precision} + \text{Recall}}$



National Forensics Sciences University, Goa Campus
Mid- semester Examination

TAZ 17

Branch – M.SC Cyber security Sem – I

Subject Name- Web Application Security

Time- 1.5 Hours

Date- 16-11-2022

Subject Code- CTMSCS SI – P3

Max.Marks- 50

32

Instructions - 1) Answer all questions. 2) Assume suitable data.

Q.1 Solve any four

20 marks

a. Explain about OWASP Zed attack proxy. 5 marks

(1) b. Compare Authentication vs. Authorization. 5 marks

(2) c. Write note about XSS. 5 marks

(3) d. What is Burp sequencer? 5 marks

(4) e. Explain the steps for secure source code review. 5 marks

Q.2 Attempt all

15 marks

(1) a. Recall life cycle of vulnerabilities Assessment. 5 marks

(2) b. Write the steps about this website (<http://esjindex.org/search.php?id=1>) for SQL Injection. 5 marks

(3) c. Describe about click jacking. 5 marks

Q. 3 Attempt a and b

15 marks

Q.3 a Attempt any one

i. Explain OWASP top ten attack. 8 marks

(+) 6+

OR

ii. Explain Security Misconfiguration and prevention method for it. 8 marks

Q.3 b Attempt any one

8 marks

i. Write note on Fuzzing with burp intruder. 7 marks

(3) 3

OR

ii. Elaborate SSRF and its prevention methods. 7 marks



National Forensics Sciences University, Goa Campus Mid- semester Examination

Branch – M.SC Cyber Security & Digital Forensic Sem – I

Subject Name- Cyber Security Audit & Compliances

Time- 1.5 Hours

Instructions - 1) Answer all questions. 2) Assume suitable data.

Q.1 Solve any four

20 marks

Date- 15/11/2022

Subject Code- CTMSCS.SI – P2

Max.Marks- 50

33/50

11

- (1) a. What are the controls and why are they important? 5 marks
- (2) b. Explain HIPPA in detail. 5 marks
- (3) c. Compare Risk Assessment vs Risk Analysis. 5 marks
- (4) d. What is implementation based security control. 5 marks
- (5) e. Explain IT Act Section 66. 5 marks

Q.2

Attempt all

15 marks

Q. 3

Attempt a and b

15 marks

Q.3 a

Attempt any one

Q.3 b

Attempt any one

i. Explain IT Act Section 43 in detail. 8 marks

OR

ii. Explain GDPR and Importance of GDPR. 8 marks

OR

i. Elaborate seven domains of IT Infrastructure in details. 7 marks

7

ii. List IT Audit process and types of audits. 7 marks

2



National Forensics Sciences University, Goa Campus

Mid- semester Examination

M.Sc. - Semester -I

14/11/2022
Page 2

Branch – Cyber Security

Sem – I

Date- 14/11/2022

Subject Name- Essentials of Cyber Security and Cyber Warfare

Subject Code- CTMSCS SI P1

Time- 1.5 Hours

Max. Marks- 50

Instructions - 1) Answer all questions. 2) Assume suitable data.

Q. 1	Attempt with reference to the Windows OS (Q 1(a)- 1 (d)):	20 Marks
	a. With reference to the Windows OS, explain the working of Lsass.exe.	5 Marks
	b. Explain different file permissions in Windows.	5 Marks
	c. Differentiate the Local and Domain account.	5 marks
	d. What is Windows Integrity Control (WIC)? Also compare various levels of WIC with respect to trustworthiness.	5 Marks 3+4
Q. 2	Attempt with reference to the Linux OS (Q 2(a)- 2 (c)):	15 Marks
	a. Consider the following example, gfg:x:1000:1000:main user:/home/gfg:/usr/bin/zsh explain each field of the above format.	5 Marks 5
	b. What is the significance of Sticky Bit?	5 Marks 02/1
	c. Why should we not prefer SetUID for running a program?	5 Marks
Q. 3	Attempt any two:	8 Marks
	a. How can an attacker exploit the rootkit attack? What is the use of loadable kernel modules (LKMs) in this attack?	4 Marks 2
	b. With the help of suitable example, explain the 80/20 rule of functionality?	4 Marks 3/4
	c. What is the significance of iptable in the Linux hardening? Also provide the example.	4 Marks

Q.4	<p>By Considering the Following Task Manager Scenario, answer the following question.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Image Name</th><th>User Name</th><th>CPU</th><th>Memory (...)</th><th>Description</th></tr> </thead> <tbody> <tr><td>chrome.exe *32</td><td>Tina</td><td>00</td><td>1,184,26...</td><td>Google Chrome</td></tr> <tr><td>chrome.exe *32</td><td>Tina</td><td>00</td><td>288,736 K</td><td>Google Chrome</td></tr> <tr><td>csrss.exe</td><td></td><td>00</td><td>2,204 K</td><td></td></tr> <tr><td>Dropbox.exe *32</td><td>Tina</td><td>00</td><td>97,396 K</td><td>Dropbox</td></tr> <tr><td>dwm.exe</td><td>Tina</td><td>01</td><td>57,080 K</td><td>Desktop Window Manager</td></tr> <tr><td>E_YATIHTU.EXE</td><td>Tina</td><td>00</td><td>4,072 K</td><td>EPSON Status Monitor 3</td></tr> <tr><td>EpmNews.exe *32</td><td>Tina</td><td>00</td><td>1,636 K</td><td>EaseUS Partition Master Free Edition App</td></tr> <tr><td>explorer.exe</td><td>Tina</td><td>00</td><td>37,788 K</td><td>Windows Explorer</td></tr> <tr><td>fpassist.exe *32</td><td>Tina</td><td>00</td><td>1,432 K</td><td>FreePDF Assistant für FreePDF3</td></tr> <tr><td>googletalkplugin.exe *32</td><td>Tina</td><td>00</td><td>7,840 K</td><td>Hangouts Plugin</td></tr> <tr><td>hkcmd.exe</td><td>Tina</td><td>00</td><td>2,568 K</td><td>hkcmd Module</td></tr> <tr><td>i_view32.exe *32</td><td>Tina</td><td>00</td><td>8,360 K</td><td>IrfanView</td></tr> <tr><td>igficers.exe</td><td>Tina</td><td>00</td><td>2,748 K</td><td>persistence Module</td></tr> <tr><td>igfxtray.exe</td><td>Tina</td><td>00</td><td>2,804 K</td><td>igfxTray Module</td></tr> </tbody> </table> <p>Show processes from all users End Process</p> <p>Processes: 114 CPU Usage: 8% Physical Memory: 78%</p>	Image Name	User Name	CPU	Memory (...)	Description	chrome.exe *32	Tina	00	1,184,26...	Google Chrome	chrome.exe *32	Tina	00	288,736 K	Google Chrome	csrss.exe		00	2,204 K		Dropbox.exe *32	Tina	00	97,396 K	Dropbox	dwm.exe	Tina	01	57,080 K	Desktop Window Manager	E_YATIHTU.EXE	Tina	00	4,072 K	EPSON Status Monitor 3	EpmNews.exe *32	Tina	00	1,636 K	EaseUS Partition Master Free Edition App	explorer.exe	Tina	00	37,788 K	Windows Explorer	fpassist.exe *32	Tina	00	1,432 K	FreePDF Assistant für FreePDF3	googletalkplugin.exe *32	Tina	00	7,840 K	Hangouts Plugin	hkcmd.exe	Tina	00	2,568 K	hkcmd Module	i_view32.exe *32	Tina	00	8,360 K	IrfanView	igficers.exe	Tina	00	2,748 K	persistence Module	igfxtray.exe	Tina	00	2,804 K	igfxTray Module	7 Marks <u>31</u>
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igfxtray.exe	Tina	00	2,804 K	igfxTray Module																																																																									

- A. Write step by step process to identify the suspicious process.
 B. Why is the chrome process considered a special case?

OR

Q.4	<p>By Considering the Following Linux Process Scenario, answer the following question.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>User</th><th>PID</th><th>CPU</th><th>Memory</th><th>Command</th></tr> </thead> <tbody> <tr><td>root</td><td>165</td><td>0.0</td><td>0.0</td><td>0 0 ? S 20:56 0:00 [scsi_eh_2]</td></tr> <tr><td>root</td><td>166</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [scsi_tmf_2]</td></tr> <tr><td>root</td><td>167</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [kworker/0:1H]</td></tr> <tr><td>root</td><td>270</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [raid5wq]</td></tr> <tr><td>root</td><td>322</td><td>0.0</td><td>0.0</td><td>0 0 ? S 20:56 0:00 [jbd2/vda1-8]</td></tr> <tr><td>root</td><td>323</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [ext4-rsv-con]</td></tr> <tr><td>root</td><td>389</td><td>0.0</td><td>0.5</td><td>78450 7044 ? S< 20:56 0:00 /lib/systemd/</td></tr> <tr><td>root</td><td>406</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [iscsi_eh]</td></tr> <tr><td>root</td><td>411</td><td>0.0</td><td>0.1</td><td>97708 1880 ? Ss 20:56 0:00 /sbin/lvmetad</td></tr> <tr><td>root</td><td>419</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [ib-comp-wq]</td></tr> <tr><td>root</td><td>420</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [ib_mcast]</td></tr> <tr><td>root</td><td>422</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [ib_nl_sa_wq]</td></tr> <tr><td>root</td><td>435</td><td>0.0</td><td>0.0</td><td>0 0 ? I< 20:56 0:00 [rdma_cm]</td></tr> <tr><td>systemd+</td><td>532</td><td>0.0</td><td>0.3</td><td>141928 3144 ? Ssl 20:56 0:00 /lib/systemd/</td></tr> <tr><td>systemd+</td><td>619</td><td>0.0</td><td>0.5</td><td>71976 5980 ? Ss 20:56 0:00 /lib/systemd/</td></tr> <tr><td>systemd+</td><td>634</td><td>0.0</td><td>0.5</td><td>70628 5340 ? Ss 20:56 0:00 /lib/systemd/</td></tr> <tr><td>root</td><td>707</td><td>0.0</td><td>0.4</td><td>43092 4156 ? Ss 20:56 0:00 /lib/systemd/</td></tr> <tr><td>root</td><td>803</td><td>0.0</td><td>0.0</td><td>0 0 ? I 20:56 0:00 [kworker/0:2]</td></tr> </tbody> </table>	User	PID	CPU	Memory	Command	root	165	0.0	0.0	0 0 ? S 20:56 0:00 [scsi_eh_2]	root	166	0.0	0.0	0 0 ? I< 20:56 0:00 [scsi_tmf_2]	root	167	0.0	0.0	0 0 ? I< 20:56 0:00 [kworker/0:1H]	root	270	0.0	0.0	0 0 ? I< 20:56 0:00 [raid5wq]	root	322	0.0	0.0	0 0 ? S 20:56 0:00 [jbd2/vda1-8]	root	323	0.0	0.0	0 0 ? I< 20:56 0:00 [ext4-rsv-con]	root	389	0.0	0.5	78450 7044 ? S< 20:56 0:00 /lib/systemd/	root	406	0.0	0.0	0 0 ? I< 20:56 0:00 [iscsi_eh]	root	411	0.0	0.1	97708 1880 ? Ss 20:56 0:00 /sbin/lvmetad	root	419	0.0	0.0	0 0 ? I< 20:56 0:00 [ib-comp-wq]	root	420	0.0	0.0	0 0 ? I< 20:56 0:00 [ib_mcast]	root	422	0.0	0.0	0 0 ? I< 20:56 0:00 [ib_nl_sa_wq]	root	435	0.0	0.0	0 0 ? I< 20:56 0:00 [rdma_cm]	systemd+	532	0.0	0.3	141928 3144 ? Ssl 20:56 0:00 /lib/systemd/	systemd+	619	0.0	0.5	71976 5980 ? Ss 20:56 0:00 /lib/systemd/	systemd+	634	0.0	0.5	70628 5340 ? Ss 20:56 0:00 /lib/systemd/	root	707	0.0	0.4	43092 4156 ? Ss 20:56 0:00 /lib/systemd/	root	803	0.0	0.0	0 0 ? I 20:56 0:00 [kworker/0:2]	7 Marks
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- A. Write the procedure to identify the kernel process.
 B. How can we identify all existing users' processes in this scenario?