**MSEI-027** 

### P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

### Term-End Examination June, 2012

00119

**MSEI-027: DIGITAL FORENSICS** 

Time: 2 hours

Maximum Marks: 50

Note: Section A - Answer all the objective type questions

Section B - Answer all the very short answer type questions.

Section C - Answer any 2 out of 3 short answer type questions.

Section D - Answer any 2 out of 3 long questions.

### SECTION-A (Attempt all the questions)

FWD Stands for

(a) Finite Data Worm
(b) Fixed Worm Data
(c) Finite Wireless Data
(d) Fixed Wireless Data
2. A \_\_\_\_\_\_ attacker entices computer to log into a computer which is set up a AP (Access Point).
Once this is done, the hacker connects to the real access point through another wireless cord offering a steady flow of traffic through the transparent hacking computer to a real Network.

1

1.

3.		stands	for WEP.		1
4.	DoS	Stands for	·		1
5.	inter hims	net provide	er where t f as anoth	_ is an attack in the the attacker disguises er user by means of a	1
6.	be s	on's identity omeone els tity, typically	in which e by assi in order	or cheating of another someone pretends to iming that person's to access resources or	1
	obtai	in credit and	l other be	nefits in that person's	
7.	nam	e. Stands for	<u>n</u>	and DAC Stands for	
,,				MENT GU	ı JRL
8.				roblem primarily per kers with access to	1
WW	techr held	nology such a devices capa as USB flash	as desktop ble of stori	computers and hand ng digital information Pods, and even digital	con
	(a)	TRUE	(b)	FALSE	
9.	CSS S	Stands for C	ascading S	Style Sheet.	1
	(a)	TRUE	(b)	FALSE	1
	(4)	INOL	(0)	PALSE	
10.	CFTT	Stands for			1

#### **SECTION-B**

### (5 very short Answer type questions) (Attempt all the questions)

11. Give difference between E-Mail Spoofing and 2 E-Mail Bombing. What are the modes and characteristics of Ethical 12. 2 Hacking? Define active and passive Reconnaissance in 13. 2 Hacking. 14. Define Honeypots and IDS. 2 **15.** What is the range of 802.20? Define i-Mode. 2

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#### **SECTION-C**

### (Attempt 2 out of 3 short answer type Questions)

- **16.** What is the prevention of unauthorized access or damage to computer using wireless network?

  Define Radius.
- **17.** What are the three principal ways to secure a wireless network?
- **18.** Define the following:
  - (a) Identity Cloning and Concealment 2
  - (b) Criminal Identity theft

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5

#### **SECTION-D**

### (Attempt 2 out of 3 long Questions)

- 19. Explain three steps of investigating Nigerian fraud cases. What is data theft? Define Ad-hoc network.
- 20. Give Some techniques for obtaining and exploiting personal information for identity theft. Give any two differences between WEP and WPA. Define Trojan attack.
- 21. Write short notes on the following:

5x2=10

- (a) Corder
- (b) Worms
- (c) Logic Bomb
- (d) Spoofing
- (e) Pornography

**MSEI-027** 

### P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination

01272

**ENT GURU** 

December, 2012

**MSEI-027: DIGITAL FORENSICS** 

Time: 2 hours Maximum Marks: 50

**Note:** Section 'A' - Answer all the objective type questions.

**Section** 'B' - Answer all the very short answer type questions.

**Section 'C'** - Answer any two questions out of three short answer type questions.

Section 'D' - Answer any two out of three long questions.

### SECTION - A

(Attempt all the questions)

- 1. WPA stands for \_\_\_\_\_\_
  - (a) Wi-Fi Protected Access
  - (b) Wi-Fi Protected Antenna
  - (c) Wi-Fi Protected Area
  - (d) Wi-Fi Protected Architecture
- 2. http stands for "hyper text technical protocol". 1
  - (a) True (b) False

MSEI-027 1 P.T.O.

3.	Stands for TCP.	1
4.	DDoS Stands for	1
5.	The simulation is clearly related to aattack as it targets the organization's equipment.	1
6.	Area of investigation also need service of to collect, analysis, and present	1
	computer based information so that it is suitable for use as evidence in court of lab.	
7.	GSM Stands for	1
8.	A attacker entices computer to log into a computer, which is set up as a AP (Access Point).	1 U
9.	I	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	In an, connections are made spontaneously such that a connection is made from the transmitting device to the receiver.	m
10.	SSID Stands for	1

#### **SECTION - B**

### (5 very short answer type questions) (Attempt all the questions)

Give any two difference between E-Mail 11. 2 Spamming and E-Mail Bombing. OR Define Data theft. What is Electronic tempering? **12**. 2 Define Identity theft. Define types of data theft. 13. 2 14. Define Active and Passive Reconnaissance in 2 Hacking. ENT GURU Explain the use of IEEE 802.16. 15.

#### SECTION - C

(Attempt 2 out of 3 short answer type questions)

- **16.** Explain the advantages and disadvantages of software based firewall and hardware based firewall.
- 17. Define file Carving and Radius Server with examples.
- 18. Name two types of wireless securities. Explain the term logs and logging in collecting and Archiving.

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#### SECTION - D

### (Attempt 2 out of 3 long questions)

- 19. What is a log file analysis? What is data theft? 10 Define Ad-hoc network.
- **20.** What is Intrusion Detection System? How does 10 it different from firewall? Define IPS.
- 21. Write a short note on the following: 5x2=10
  - (a) Firewall
  - (b) Routers
  - (c) Logic bomb
  - (d) SNMP
  - (e) 802.11b, 802.11g wifi 2.

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MSEI-027 (P)

### POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

# Term-End Practical Examination December, 2012

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours

Maximum Marks: 100

Note: (i) Attempt any two questions out of three carrying 40 marks each.

- (ii) Viva voce carries 20 marks.
- Install the SMTP server by misguiding protocol. 40
   Explain the concept of Email bombing. How is it done on any email ID practically and generate the final report.
- 2. Generate an anonymous email from 40 hack@ignou.com and Drop the mail in any email ID.
- 3. Spoof your IP and MAC address after spoofing. 40 Verify whether your current system IP and MAC address is same as it was before?

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**MSEI-027** 

### P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

**Term-End Examination** 

00256

P.T.O.

June, 2013

Time: 2	2 hours	Maximum Marks: 50
Note :	Section	A - Answer all the objective type questions.
	Section	B - Answer all the very short answer type
		questions.
	Section	C - Answer any two questions out of three
		short answer type questions.
	Section	D - Answer any two questions out of three
		long questions.
	17	A SECTION-A LANGER GUR
		Objective type questions
		(Attempt all the questions)
1. VF	TC stand	for <u>ouass</u> ignmentgury.co
(a	) Feder	al Trade Commission
(b	) Feder	al Trade Commissioner
(0	) Feder	al Trade Command
(d	l) None	of these
2		is the world's first "smart phone" for 1
TAZ	eb brows	ing and provides color and video over
V V		

1

	3.	A Multi Media Card (MMC) is a solid-state disk card with number of pins connector.	1
	4.	MF, DF, EF are the types of file system for SIM.  (a) True (b) False	1
	5.	GSM stands for	1
	6.	GPRS stands for  (a) General Packet Radio Server	1
		(b) General Packet Radio Service	
		<ul><li>(c) General Package Radio Server</li><li>(d) None of these</li></ul>	
	7.	PUK stands for	1
ww	8. W.i	802.119 used the data rate of mbps.	- 1
	9.	Spam is the use of electronic messaging system to send unsolicited bulk messages indiscriminately.  (a) True (b) False	1
	10.	EDGE stands for Enhanced Data GSM Environment.  (a) True (b) False	1
	1.50	SI 007	

#### SECTION-B

Very short type questions (Attempt *all* the questions)

11. What is Spoofing?
12. What is PDA Seizure?
13. What is honeypotting?
14. Define Bluetooth.
15. Write a short note on "Multi-Media Card".
2

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#### SECTION-C

Short Answers type questions (Attempt 2 out of 3 questions)

- **16.** Give some examples of important computer related crimes in India.
- 17. How can one define digital investigations and digital evidence? And when a complaint on information theft is received, how should one start investigation?
- 18. What are the advantages of using wireless technology for computer network?

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#### SECTION-D

Long answers type questions (Attempt 2 out of 3 questions)

- Define i-mode. Explain the use of WPAN's. What is range of 802.20? List three classifications of wireless networks.
- 20. Explain "Log File Analysis". What is "File 10 Carving" in Data Recovery? What is Salvaging of Data?
- **21**. Write a short note on the following:
  - (a) SNMP
  - (b) Vital Information Resource under Siege
  - (c) Cyber Terrorism
  - (d) Root-Kits
  - (e) Cyber Bullying

MSEI-027 (P)

# 00440

### POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Practical Examination June, 2013

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours

Maximum Marks: 100

Note:

- (i) Attempt 2 out of 3 questions. Each carries 40 marks.
- (ii) Viva-voce carries 20 marks.
- By misguiding SMTP Protocol, explain the concept 40 of E-mail Bombing and Generate the final report.
- 2. Generate the report on the basis of System 40 Details/Logs.
  - (a) Logs for USB Device
    - (b) Logs for User Authentication
    - (c) Logs for Application Errors
    - (d) OS installation Date and Time
    - (e) Screen Shot of System Up Time
    - (f) OS product ID
    - (g) Host Name
    - (h) List of existing usernames on system

MSEI-027 (P)

1

P.T.O.

 Do penetration testing and information gathering on http://sedulitygroups.org, try to find out the information as more as it can possible and generate the final report.



MSEI-027 (P)

### POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

### Term-End Practical Examination December, 2013

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours Maximum Marks: 100 Attempt 2 out of 3 questions. Each carries Note: (i) 40 marks. Viva-voce carries 20 marks. (ii) By misguiding SMTP and HTTP protocol, explain 1. 40 the concept of Fake mailing and phishing attacks and generate the final report. 2. Generate the report on the basis of System 40 Details/ Logs. (a) Screen shot of system time up. (b) OS Product ID. (c) Logs for application errors. (d) List of existing user names on system. (e) Logs for USB Devices. (f) Logs for user Authentication. (g) Host name. OS Installation Date and Time. (h)

3. Do penetration Testing and Information gathering on Http:// Sedulity.in, try to find out the information as more as it can possible and generate the final report.



**MSEI-027** 

### P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

### **Term-End Examination**

December, 2013

**MSEI-027: DIGITAL FORENSICS** 

Maximum Marks: 50 Time: 2 hours **Section** A - Answer all the objective type questions. Note: Section B - Answer all the very short answer type questions. Answer any two out of three short Section C answer type questions. Section D - Answer any two out of three long questions. **SECTION - A** Objective type questions. (Attempt all the questions): 1. PDA stands for \_\_\_\_\_\_. 1 (a) Personal Digital Assistant (b) Personal Digital Admin. (c) Personal Digital Admission (d) None of these A Multi-Media Card (MMC) is a solid-state disk 1 2. card with\_\_\_\_number of pins connector.

3.	is the world first "smart phone" for web browsing provider color and video over telephone sets.	1
4.	Full form of SM is	1
5.	WAP stands for Wired Application Protocol. (a) TRUE (b) FALSE	1
6.	"PGP" stands for	1
7.	"SSIDS" stands for	1
8.	"TFTP" stnds for	1
9.	EDGE stnds for Enhanced Data GSM Environment.  (a) TRUE (b) FALSE	1
10.	is the collection of infected computers or bots that have been taken over by hackers.	RL
ww	SECTION - B  Very short type questions. (Attempt all the questions)	on
11.	What is WEP?	2
12.	Write a short note on types of Spam.	2
13.	What is infrored?	2
14.	Write a short note on mobile forensics.	2
15.	Write a short note on freezing the scene.	2

#### SECTION - C

Short answer type questions. (Attempt 2 out of 3 questions.)

**16.** What is Money Loundering? What is Identity theft?

5

- 17. Explain only two tools used in "Forensics 5 Examination of Mobile devices".
- **18.** Write a short note on data file integrity . Explain logical Backup and Bit Stream Imaging.

#### SECTION - D

Long Answers type questions. (Attempt 2 out of 3 questions):

- **19.** Explain five stages of Ethical Hacking.
- 20. What is the general process for conducting a digital investigation? As on investigator what are different things that have to be determined / looked into for conducting an effective investigator?
- 21. Write a short note on the following: 5x2=10
  - (a) Cyber Stalking
  - (b) MAC
  - (c) Harassment
  - (d) SIM card Acquisition
  - (e) WIPS

MSEI-027 (P)

### POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

# Term-End Practical Examination June, 2014

00407

MSEI-027 (P): DIGITAL FORENSICS Time: 3 hours Maximum Marks: 100 **Note:** (i) Attempt any two questions out of three. Each question carries 40 marks. (ii) Viva-voce carries 20 marks. 1. By using any Data Acquisition/Recovery Tool, try to retrieve the details for the duration of last week, which are as follows: 40 (a) DOC/DOCX files accessed (b) E-mails received/sent (c) Images downloaded from the Internet Exe files executed in the last week (d) Try to use some wireless sniffers and display the list of Access points available 2. with their details like SSID, MAC Address, Distance and Channel ID running at any particular instance. 40 Generate the list of the USB devices with their details applied on the existing Operating System for the duration of last one week. 40

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**MSEI-027** 

No. of Printed Pages: 3

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P.T.O.

### P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

### **Term-End Examination**

June, 2014

**MSEI-027: DIGITAL FORENSICS** 

Tir	ne : 2	hours		Maximum Marks	: 50
No	ote :			Answer all the objective type quest Answer all the very short answer to questions.	
				Answer any two questions out of the short answer type questions.	
		Section	D -	Answer any two out of three questions.	long ——
		(A		ECTION - A ot all the questions)	JUKU
1.		aspect s	ysten	occurs when the data from a is being copied without the suspect operating system.	ru.com
2.	T	he full fo	rm o	FIFO is	1
3.	 o: a:	r bots tha	t hav	collection of infected computers e been taken over by hackers and orm malicious tasks or functions.	1
4.	is	useful n	ot on	g and accounting of your system ly for detecting intruders but also	1

1

	5.	analysis tool that comes in both local and network - based versions.	1
	6.	is any evidence presented by a person who was not a direct witness.	1
	7.	The was established in 1995 to provide a forum for law enforcement agencies across the world to exchange information about computer forensics issues.	1
	8.	information that supports or refutes a hypothesis.	1
	9.	is the use of electronic messaging	1
		systems to send unsolicited bulk messages indiscriminately.	
	10.	is the programming instructions that are compiled into the executable files that are sold by software development companies.	1
		SECTION - B	
۷W۱	w.i	(5 very short answer type questions) (Attempt <b>all</b> the questions)	
	11.	What is electronic tempering?	2
	12.	What are the techniques for obtaining and exploiting personal information for identity theft?	2
	13.	Explain the types of Spam.	2
	14.	What is exculpatory evidence?	2
	15.	What are the two basic forms of collection?	2

#### SECTION - C

(Attempt 2 out of 3 short answer type questions)

- Write short notes on: 16.  $2.5 \times 2 = 5$ Cyber terrorism (a)
  - Identity theft (b)
- 17. Explain the major characteristics of financial 5 crimes.
- 18. Electronic crime is difficult to investigate and 5 prosecute. Elaborate this statement.

#### SECTION - D

(Attempt 2 out of 3 long questions)

What are the issues involved with detection of 19. 10 cyber crimes in India?

10

- 20. You are working as a investigator for looking over the intellectual properties policies of the company "XYZ Ltd" and to check for the violations, if any. How you will plan your investigation and what are the main questions which you will ask the company and its employees? nentguru.com
- 21. Forensic analysis of digital evidence depends on 10 the case context and largely relies on the knowledge, experience, expertise, thoroughness and in some cases the curiosity of the practioner performing the work. Do you agree? Explain the underlying process of forensic analysis in detail.

MSEI-027 (P)

### POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

### **Term-End Practical Examination** December, 2014

00014

Ti	me: 3 hours Maximum Marks:	100
<b>N</b> o	ote: (i) Attempt any 2 questions out of 3 carrying 40 marks each.  (ii) Viva-voce carries 20 marks.	
1.	Apply the forensics tools on the Pen-Drive / Mobile Memory Card and do the Data Acquisition / Recovery of the following:  (a) DOC/DOCX files  (b) MP3/MPEG files  (c) JPG/JPEG/GIF files  (d) 3GP/AVI files	40
2.	Calculate the MD5 hash value for any file or folder and copy the file or folder to some other location on the network and then recalculate the MD5 and compare whether the value of MD5 is the same or different. Display the list of the DOC files accessed from the Pen Drive from the system.	40
3.	Apply some wireless sniffer tool and display the list of Access Points available with their details like SSID, MAC Address, Distance and Channel ID running at any particular instance.	40

**MSEI-027** 

Maximum Marks: 50

### P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

### **Term-End Examination**

00904

Time: 2 hours

December, 2014

**MSEI-027: DIGITAL FORENSICS** 

Not	e:		
Sect	$tion\ A$ $-$	Answer <b>all</b> the objective type quest	ions.
Seci	tion B –	Answer <b>all</b> the very short of questions.	inswer type
Sect	tion C –	Answer any <b>two</b> questions out of answer type questions.	f three short
Sect	tion D –	Answer any <b>two</b> questions out o	f three long
w	w.ig	answer type questions.	ru.com
		SECTION A	
Atte	empt all	the following questions.	10×1=10
1.		is one where the suspect op	erating
	systen	n is still running and being used	to copy
	data.		1
2.		is the full form of BIOS.	1
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3.	An is a form of Internet text	
	messaging or synchronous conferencing.	1
4.	is "an information resource whose value lies in unauthorized or illicit use of that resource".	1
<b>5.</b>	The is an online publication devoted	
	to discussions of the theory and practice of	
	handling digital evidence.	1
6.	Whenever a system is compromised, there is almost always something left behind by the	
	attacker be it code fragments, trojaned programs,	
	running processes, or sniffer log files. These are	
	known as	1
_		
7.	The is a non-profit organisation that	
	is dedicated to educating law enforcement	Κl
	professionals in the area of computer forensics.	1
8.	is the intentional or unintentional	
wv	use of a portable USB mass storage device to	on
	illicitly download confidential data from a	
	network endpoint.	1
_		
9.	A is a process where we develop and	
	test hypotheses that answer questions about	1
	digital events.	1
10.	The field of involves identifying,	
	extracting, documenting and preserving	
	information that is stored or transmitted in	
	electronic or magnetic form.	1
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### **SECTION B**

Ans	wer all 5 very short answer type questions.	5×2=10
11.	Define types of data theft.	2
<b>12.</b>	Why is spam so prevalent on the Internet?	2
13.	Which one is more ideal – dead analysis or lanalysis and why?	ive $2$
14.	What is volatile evidence?	2
15.	What are the three major phases of Dig. forensics?	ital 2
	SECTION C	
Ans	wer any 2 questions out of 3 short answer type	GUK
	stions.	2×5=10
16.	Write short notes on the following:	$\frac{1}{2} \times 2=5$
	(a) Cyber bullying	
	(b) Data theft	
17.	Explain the major characteristics of white coleconomic crimes.	llar 5
18.	Explain the background of botnets.	5
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#### SECTION D

Answer any 2 questions out of 3 long answer type questions.  $2\times10=20$ 

- 19. Cyber crime is a rapidly growing field and problem area for law enforcing agencies. Do you agree? Explain in detail.
  10
- 20. What are the items that need to be considered for conducting an effective investigation for cyber crime?
- 21. Explain the five rules of collecting electronic evidence in detail.

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MSEI-027 (P)

00971

### POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

## Term-End Practical Examination June, 2015

MSEI-027 (P): DIGITAL FORENSICS

Maximum Marks: 100 Time: 3 hours Attempt 2 out of 3 questions. Each carries Note: (i) 40 marks. (ii) Viva-voce carries 20 Marks. How to identify fake mail using header 1. information of an email? Send a mail using fake-mailer and also from a genuine email-id and show the header analysis of email. How to retrieve the deleted data from the drive? 2. 40 Show the steps involve in it. 40 3. Analyze audit trails of Windows to find out information about the following terms: (a) Logic bomb Vulnerability (b) (c) Exploit (d) Back door entry and trapdoor

No. of Printed Pages: 4 **MSEI-027** P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS) 5 **Term-End Examination** 600 June, 2015 **MSEI-027: DIGITAL FORENSICS** Maximum Marks: 50 Time : 2 hours (i) Section 'A'- answer all the objective type questions. Note: (ii) Section 'B'- answer all the very short answer type questions. (iii) Section 'C' - answer any two questions out of three short answer questions. (iv) Section 'D'- answer any two out of three long questions. SECTION - A (Attempt all the questions) Which Intrusion Detection System (IDS) usually 1. 1 provide the most false alarm due to unpredictable behaviors of users and networks? Network based IDS system (NIDS) (a) Host based IDS system (HIDS) (b) Anomaly Detection (c) Signature recognition (d) refers to the unauthorized entry into 1 2. a computer system.

3.	retrieving and presenting data that has been processed electronically and stored on computer media.	1
4.	The first step in a digital Forensics process is	1
5.	GSM stands for	1
6.	Ubuntu is a(n)	1
7.	is the use of the internet or the other electronic means to stalk or harass an individual, a group of individual, or an organization.	1
8.	The name of website containing periodic posts	1
9.	When examining hard disk without a write-blocker, you should not start windows because windows will write data to the :  (a) Recycle Bin  (b) Case files	1
VV VV	<ul><li>(b) Case files</li><li>(c) BIOS</li><li>(d) MSDOS. sys</li></ul>	
10.	When performing a forensic analysis, what device is used to prevent the system from recording data on an evidence disk?  (a) Write-blocker  (b) Protocal Analyzer  (c) Firewall  (d) Disk Editor	1

### **SECTION - B**

(5 very short answer questions) (Attempt **all** questions)

11.	What is electronic tempering?	2
12.	Define Active and Passive Reconnaissance in Hacking.	2
13.	Differentiate "copy of the drive" and "imaging of the drive".	2
14.	What is firewall?	2
15.	What is cloud forensic?  SECTION - C  (Attempt 2 out of 3 short answer questions)	2
16.	What are some initial assessment you should make for a computing investigation?	5
<b>17.</b>	Explain Daubert Guideline. Why these guidelines helpful in the digital forensic investigation.	<b>5</b> n
18.	What is IMEI? Why it is used in mobile phone devices? How it is helpful in forensic investigation?	5
SECTION - D  (Attempt 2 out of 3 long questions)		
	(Attempt 2 out of 3 long questions)	
19.	Discuss the levels of analysis for data acquisition from mobiles phones.	10

- 20. How digital evidence is processed? What are the steps involved in Evidence Acquisition? Explain with the help of hypothetical case.
- 21. Write short notes on the following: 5x2=10
  - (a) Hacking
  - (b) Cloning in forensic analysis
  - (c) Digital Evidence
  - (d) Admissible Evidence
  - (e) Logic Bomb



MSEI-027 (P)

00469

## POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

# Term-End Practical Examination December, 2015

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours

Maximum Marks: 100

Note: (i) Attempt 2 out of 3 questions. Each carries
40 marks.

(ii) Viva-voce carries 20 Marks.

- Target any domain e.g. www.yahoo.com to 40 gather following information:
  - (a) Daily page views.
  - (b) Source of maximum traffic.
  - (c) Most popular page of website.
  - (d) WHO's information
  - (e) Rank of the website
  - (f) Security loopholes if any.
- How to identify phishing website? Explain the concept of phishing attack and generate the final report.
- 3. How to find IMEI number of the mobile phone? 40 How this number is useful in the forensic investigation? Generate an audit report for the Smart Phone.

**MSEI-027** 

## P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

## **Term-End Examination**

December, 2015

Time :	2 hours	Maximum Marks : 50
Note:	(i)	Section 'A'- Answer all the objective questions.
	(ii)	Section 'B'- Answer all the very short answer
		questions.
	(iii)	Section 'C' - Answer any two questions out of
	<i>(</i> 1 )	three short answer questions.
	(iv)	ACCICALMENT CIT
		questions.
		SECTION - A
wv	vvv.i	(Attempt all the questions)
	of data or other	that can be retrieved from the hard disk disks of a computer by applying scientific s to retrieve data.
		osoft file structure, sectors are rounded 1 r to form
		refers to handing over the results te investigations to the authorities because

4.		e TCP/IP protocol stack ploit known as the Ping of	1
5.	describes the route that	sic investigation, what t evidence takes from the e case is closed or goes to	1
	a) Rules of evidence		
	b) Law of probability	y.	
	c) Chain of custody.		
	d) Policy of separation	on.	
6.	When examining a file pace does the file head	,	1
	a) The last several by	ytes of the file.	
	b) The first several b	ytes of the file.	
www.	c) None, file header	are contained in the FAT.	
	d) One byte at the be	eginning of the file.	
7.	What does the acronymo a Pc?	n POST mean as it relates	1
	a) Primary Operation	ns Short Test.	
	b) Power On Self Te	st.	
	c) Pre Operational S	ituation Test.	
	d) Primary Operating	g System Test.	

0.	should	1
	<ul><li>(a) Make two copies of each evidence item using a single imaging tool.</li></ul>	
	(b) Make a single copy of each evidence item using an approved imaging tool.	
	(c) Make two copies of each evidence item using different imaging tools.	
	(d) Only store the original evidence item.	
9.	http stands for "hyper text transfer protocol".	1
	(a) True (b) False	
10.	DDoS stands for	1
	ASSECTION - B GURL	J
	(5 very short answer questions)	
VV11.	(Attempt <b>all</b> questions)  What is cloning in forensic analysis?	2
12.	What is admissible evidence ?	2
13.	Differentiate "copy of the drive" and "imaging of the drive" ?	2
14.	What is Logic Bomb ?	2
15.	What is cloud forensic?	2
MS	SEI-027 3 P.T.O	).

P.T.O.

## **SECTION - C**

16.	(Attempt 2 out of 3 short answer type questions) 5 Explain the principles of Computer - Based Evidence.			
17.	What are legal issues involved in seizure of the computer equipment?			
18.	Explain any digital forensic investigation model. 5			
	SECTION - D			
19.	(Attempt 2 out of 3 long questions)  Explain the classification of CFCC (Cyber Frand and Cyber Crime). What are the pre-search preparations required for the forensic investigation case?			
20.	What is Intrusion Detection System? How it is different from firewall?			
21.	Write a short note on the following:  (a) Firewall.  (b) Hacking.  (c) Electronic tempering.  (d) Logic bomb.  (e) IEEE 802.16.			

MSEI-027 (P)

Maximum Marks: 100

40

00320

Note:

Time: 3 hours

40 marks.

(ii) Viva-voce carries 20 Marks.

# POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

# Term-End Practical Examination June, 2016

MSEI-027 (P): DIGITAL FORENSICS

(i) Attempt 2 out of 3 questions. Each question carries

1. Apply the forensic tools on the Pen-Drive/Mobile Memory Card and do Data Acquisition/Recovery of the following: DOC/DOCX files (a) (b) MP3/MPEG files JPG/JPEG/GIF files (c) 3GP/AVI files (d) 2. Try to use some wireless snitlers and display the 40 list of Access points available with their details like SSID, MAC address, Distance and Channel ID running at any particular instance.

3.

Generate the list of the USB devices with their

details applied on the existing Operating System

for the duration of last one week.

**MSEI-027** 

# P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

## **Term-End Examination**

June, 2016

**MSEI-027: DIGITAL FORENSICS** 

Time: 2	2 hours		Maximum Marks : 50
Note:	(i)	Section A - Answer al questions.	I the objective type
	(ii)	Section B - Answer all	the very short answer
		type questions.	
	(iii)	Section C - Answer any t	wo out of three short
		answer type questions.	
	(iv)	Section D - Answer any	two out of three long
		answer type questions.	ENITCLIDI
		SECTION - A	LIVI GON
		(Attempt all the question	ons.)
1. F	ГС sta	nds for	entguru.con
<b>(</b> a	) Fe	deral Trade Commission	
(b	) Fe	deral Trade Commissione	r
(c	) Fe	deral Trade Command	
(d	l) No	one of these	
2. R	SA is _	key cryptosys	tem. 1
<b>3.</b> D	DOS s	tands for	1
MSEI-0	027	. 1	P.T.O.

Do	ownload More:- https://www.ignouassignmentguru.com/papers	
4.	A attacker entices computer to log into a computer, which is set up as an AP (Access Point).	1
5.	is a collection of infected computers or bots that have been taken over by hackers and are used to perform malicious tasks or functions.	1
6.	is a digital object that contains reliable information that supports or refutes a hypothesis.	1
7.	is a computer program that can copy itself and infect a computer.	1 RU
8. WWW	An is a form of internet text messaging or synchronous conferencing.	1 )m
9.	WAP stands for Wired Application Protocol:	1
	<ul><li>(a) True</li><li>(b) False</li></ul>	
10.	"PGP" stands for	1

## **SECTION - B**

Very short type of questions. (Attempt all the questions.)

11.	What is Spoofing ?	2
12.	What is 'Identity theft'? Define types of data theft.	2
13.	What is exculpatory evidence ?	2
14.	Differentiate "copy of the drive" and "imaging of the drive".	2
15.	What are three major phases of Digital Forensics?	R
	SECTION - C	
// VV	(Attempt 2 out of 3 short type questions.)	or
16.	What is Money laundering?	5
17.	Explain the advantages and disadvantages of software based firewall and hardware based firewall.	5
18.	What are some initial assessment you should make for a computing investigation?	5
MSE	EI-027 3 P.T	. <b>O</b> .

#### SECTION - D

(Attempt 2 out of 3 long questions.)

- 19. Explain "Log File Analysis". What is "File Carving" in Data recovery? What is salvaging of data?
- **20.** What is Intrusion Detection System? How does 10 it different from firewall? Define IPS.
- **21.** Write a short note on the following:
  - (a) Cyber bullying
  - (b) SIM Card Acquisition
  - (c) Cyber Terrorism
  - (d) Admissible Evidence
  - (e) Logic Bomb

No. of Printed Pages: 4 **MSEI-027** P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS) )0022 Term-End Examination December, 2016 MSFI-027: DIGITAL FORENSICS Time: 2 hours Maximum Marks: 50 Section A - Answer all the objective type **Note** : (i) questions. Section B - Answer all the very short answer (ii) type questions. Section C - Answer any two out of three short (iii) answer type questions. Section D - Answer any two out of three long (iv)answer type questions. SECTION - A (Attempt all the questions.) 1. PDA stands for: Personal Digital Assistant (a) (b) Personal Digital Admin. Personal Digital Admission (c) None of these (d) A Multi-Media Card (MMC) is a solid state disk 1 2. card with \_\_\_\_\_ number of pins connector.

Class 1 Bluetooth devices have the range of

metres.

3.

1

4.	GPRS stands for:	1			
	(a) General Packet Radio Server				
	(b) General Packet Radio Service				
	(c) General Package Radio Server				
	(d) None of these				
5.	is the collection of infected computers	1			
	or bots that have been taken over by hackers.				
6.	EDGE stands for Enhanced Data Rate for GSM	1			
	Evolution.	•			
	(a) True (b) False				
7.	The full form of FIFO is	1			
•					
8.	is the full form of BIOS.	1			
9.	"SSIDS" stands for	U			
9.	stands for	1			
10.	"TFTP" stands for	1			
V VV V	"IFIP" stands for				
	SECTION - B				
	(5 very short answer type questions)				
	(Attempt all the questions)				
11.	What is volatile evidence?	2			
	The second contract of	_			
12.	Write a short note on freezing the scene.	2			
	0	_			
13.	What is honey potting?	2			
	-				

2

**MSEI-027** 

Give any two differences between E-mail

Spamming and E-mail Bombing.

**14**.

2

- Which one is more ideal-dead analysis or live **15**. 2 analysis and why? **SECTION - C** (Attempt 2 out of 3 short answer type questions) What are the legal issues involved in seizure of 5 **16.** the computer equipment? Explain the principal of Computer - Based Evidence. Explain the major characteristics of financial 5 17. crimes. Explain any two tools used in "Forensics 18. Examination of Mobile Devices". SECTION - D (Attempt 2 out of 3 long questions)
  - 19. What is Digitized document forensic? In computer investigation how the printout can be investigated and how the investigator come to know about the printer and from which the print had been taken.
  - 20. What are the items that need to be considered for conducting an effective investigation for cyber crime?

- **21.** Write a short note on the following:
- 10

- (a) SNMP
- (b) Root kits
- (c) Data theft
- (d) Cloning in forensic analysis



MSEI-027 (P)

# POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

0162

**Term-End Practical Examination** 

December, 2016

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours

Maximum Marks: 100

**Note:** (i) Attempt 2 out of 3 question. Each question carries 40 marks.

- (ii) Viva-voce carries 20 Marks.
- 1. By misguiding SMTP Protocol, explain the concept 40 of E-mail Bombing and generate the final report.
- 2. Generate the report on the basis of System 40 Details/Logs.
  - (a) Screen shot of system time up.
  - (b) OS Product ID.
  - (c) Logs for application errors.
  - (d) List of existing user names on system
  - (e) Logs for USB Devices
  - (f) Logs for user Authentication
  - (g) Host name
  - (h) OS installation Date and Time
- 3. How to retrieve the deleted data from the drive? 40 Show the steps involve in it.

**MSEI-027** 

00308

# P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

## **Term-End Examination**

June, 2017

**MSEI-027: DIGITAL FORENSICS** 

Time: 2	2 hours	Maximum Marks	<i>: 50</i>
Note:	(i)	Section A - Answer all the objective questio	ns.
	(ii)	Section B - Answer all the very short and questions.	swer
	(iii)	Section C - Answer any two questions out of t short answer type questions.	hree
	(iv)	Section D - Answer any two out of three answer type questions.	long
1 D	AID o	SECTION - A  (Attempt all the questions)	RU 1
<b>1.</b> R	AID S	tands for	
<b>2.</b> Si	NMP s	stands for Signm. entitle Control of the Stands for Signm.	om
3. S	SID st	ands for	1
<b>4.</b> II	RC sta	nds for	1
	CP/IF True/F	Protocol used behind ping command False)	1
<b>6.</b> A	AA P	rotocol/Service in RADIUS stands for	1
MSEI-	027	 1 P.'	T.O.

7.	An Indian Act called as to handle cyber frauds.	1
8.	DD command in Linux used for Wireless Password recovery. (True/False)	1
9.	IMAP stands for	1
10.	WPA stands for	1
	SECTION - B	
	(5 very short answer questions)	
	(Attempt all questions)	
11.	What is file Carving and Blue-snarfing?	2
12.	Explain salvaging of data.	2
13.	What is log Analysis? Explain with example.	2
14.	What is Seizure? Explain.	2
15.	What is CDR? How it helps for investigation?	2
	SECTION - C	
16.	(Attempt 2 out of 3 short answer type questions) What is the difference between Firewall, IDS and IPS?	5
17.	Difference between Passive and Active Reconnaissance in Hacking.	5
18.	What is Money Laundering and Phishing?	5

#### SECTION - D

(Attempt 2 out of 3 long answer type questions)

- 19. What is the difference between WIFI and WI 10 MAX, specify their standards, technical characteristics and security Policies?
- 20. What is the Procedure of RAM forensics, Hard 10 disk forensics and Mobile Forensics?
- 21. Explain the following:

2x5

- (a) Human Trafficking
- (b) Cyber Stalking
- (c) TKIP
- (d) SIM card Analysis
- (e) Data Recovery

ASSIGNMENT GURU

MSEI-027 (P)

30313

## POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

# Term-End Practical Examination June, 2017

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours Maximum Marks: 100

**Note:** (i) Attempt 2 out of 3 questions. Each question carries **40** marks.

- (ii) Viva-voce carries 20 Marks.
- Select a Pen drive/Removable External drive, find all Artifacts from the removable drive, also create image of the same Pen drive and calculate its MDS and SHAI Hash value.
- 2. Identify Network Forensics details as given below using any Sniffer like Wireshark etc.
  - (a) List the real time IP address and their MAC address connected to the host.
  - (b) List the http from method content requested by the specific IP.
  - (c) List the IP address sending the Packets to post 25 or 80 as a source or destination post.
  - (d) List of the Protocols like ICMP, ARP, and DNS Packets only.

- 3. Take any Smart Phone and find details given 40 below.
  - (a) Technical Configuration of the Mobile Phone.
  - (b) Find details of WiFi interface card like IP address, MAC address SSID details and signal strength etc.
  - (c) Analysis list of Apps installed and running on the phone.
  - (d) List real time IP address and their ports communicating to the phone.



**MSEI-027** 

P.T.O.

## P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

,6200

**MSEI-027** 

**Term-End Examination** 

December, 2017

#### **MSEI-027: DIGITAL FORENSICS**

Time: 2 hours Maximum Marks: 50 Section 'A' - Answer all the objective questions. Note: (i) Section 'B' - Answer all the very short answer (ii) questions. Section 'C' - Answer any two questions out of (iii) three short answer type questions. Section 'D' - Answer any two out of three long (iv) answer type questions.

#### SECTION - A

	(Attempt an the questions)	
1.	SHA stands for assign.	.C <sub>1</sub>
2.	IMEI stands for	1
3.	PUK stands for	1
4.	GPRS stands for	1
5.	UDP Protocol also use 3 ways Handshake for connection establishment. (True/False)	1
6.	What is the latest file system used in LINUX 64 bit OS?	1

1

7.	MAC address defined in NIC Chipset.	1
	(True/False)	
8.	Command, commonly use in Linux	1
	to create hard disk image.	
9.	ICMP Protocol use behind	1
	Command.	
10.	bits size for IPV6 Protocol.	1
	SECTION - B	
	(5 Very short answer questions)	
	(Attempt all questions)	
11.	Define Cyber Bullying and Cyber Terrorism.	2
12.	Define Botnets and E-mail Spams.	2
13.	Define Boot Loaders with examples.	2
14.	Explain the image file format. Explain embedded	2
	image.	
15.	Explain Ad hoc mode of operation.	2
WW	SECTION - C	on
	(Attempt 2 out of 3 short answer type questions)	
16.	What are the Artifacts of Cyber forensics? What	5
	are the Artifacts collection steps generally used?	
17.	What is the difference between Logical Data	5
	Acquisition and Physical Data Acquisition?	
18.	What is the process of LOG File Analysis? How	5
	to Reconstruct Deleted Files?	

#### SECTION - D

(Attempt 2 out of :	3 long	answer	type	questions)
---------------------	--------	--------	------	------------

- 19. What is the difference between WiFi 802.11b, 10 802.11g and 802.11n series?20. Explain any 5 Email and IRC related Crimes. 10
- 21. What do you mean by steganography? Explain 10 in detail. What are Symmetric and Asymmetric types?



MSEI-027 (P)

00413

## POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

### **Term-End Practical Examination**

December, 2017

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours

Maximum Marks: 100

Note: (i) Attempt 2 out of 3 questions. Each question carries
40 marks.

- (ii) Viva-voce carries 20 Marks.
- 1. Select an image, find Artifacts of the image, apply steganography on the image and generate the new image. By using any reverse engineering or forensics tools, find the hidden file details from the steganographic image.
- Identify Networks Forensics details as given below 40 using any Sniffer like Wireshark etc.
  - (a) Shows all TCP Packets that contain the word "Facebook".
  - (b) Displays all HTTP responses that were sent more than 2 seconds after the request.
  - (c) Sets a filter for any packet with X.X.X.X as the source or dest IP.
  - (d) List of the protocols like ICMP, ARP, SMTP and DNS Packets only.

MSEI-027 (P)

1

P.T.O.

40

Take a Removable External drive or pen drive. 3. Find all Artifacts from the removable drive, delete some files and than try to recover those files and calculate its MD5 and SHA1 Hash Values.

40



**MSEI-027** 

No. of Printed Pages: 4

P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS) Term-End Examination **June.** 2018 **MSEI-027: DIGITAL FORENSICS** Time: 2 hours Maximum Marks: 50 Section A - Answer all the objective type Note: (i) questions. Section B - Answer all the very short answer (ii) type questions. Section C - Answer any two out of three short (iii) answer type questions. Section D - Answer any two out of three long (iv) answer type questions. SECTION - A (Attempt all the questions) What is the most significant legal issue in 1. computer forensic? Preserving Evidence (a) entguru.com (b) Seizing Evidence Admissibility of Evidence (c) (d) Discovery of Evidence 2. When a file is deleted? 1 (a) The file remains intact. (b) The FAT entry for the file is zeroed out so it shows that the area is available for use by a new file. (c) The first character of the directory entry file name is changed to a special character. All of the above. (d) **MSEI-027** 1 P.T.O.

3.	Which of the following is not a property of 1 computer evidence ?			
	_	Authentic and Accurate		
	(a)	Complete and convincing		
	(b)	1		
	(c)	Duplicated and preserved		
	(d)	Conform and Human Readable		
4.		is the science of hiding messages in	1	
	mess	•		
	(a)	Scanning		
	(b)	Spoofing		
	(c)	Steganography		
	(d)	None		
5.	Whe	n shutting down a computer, what	1	
	infor	mation typically lost?		
	(a)	Data in RAM memory		
	(b)	Running Processes		
	(c)	Current network connections		
	(d)	All of the above		
	ì ′	ASSIGNMENT GOV	1	
6.	USB	drives use	1	
	(a)	RAM memory		
w	(b)	Cache memory	n	
	(c)	Flash memory	-	
	(d)	None of the above		
	` /			
7.	As a	good forensic practice, why would it be a	1	
	good	l idea to wipe a forensic drive before using		
	it?			
	(a)	Chain of custody		
	(b)	No need to wipe		
	(c)	Different file and operating system		
	(d)	Cross-contamination		
	()			

8.	Which of the following is an example of input device?			
	(a)	Scanner		
	(b)	Speaker		
	(c)	CD		
	(d)	Printer		
9.	The	operating system is the most common type of software.	1	
	(a)	Communication		
	(b)	Application		
	(c)	System		
	(d)	Word-processing software		
10.		are computers that excel at executing	1	
	time	y different computer programs at the same  SECTION - B  (5 Very short answer type questions)  (Attempt all questions)		
11.		at are the techniques for obtaining and oiting personal information for identity	2	
12.		at are the three major phases of Digital asic?	2 11	
13.		erentiate "copy of the drive" and "imaging of drive".	2	
14.	Defin Hack	ne Active and Passive Reconnaissance in king.	2	
15.	Defir foren	ne windows registry. Why it is important in sic?	2	

#### **SECTION - C**

	(Attempt 2 out of 3 short answer type questions)	
16.	What are some initial assessment you should make for a computing investigation?	5
17.	How forensic analysis is done on windows and mobile devices?	5
18.	What is data acquisition and duplication? Give a brief description of data acquisition tools.	5
	SECTION - D	
	(Attempt 2 out of 3 long answer type questions)	
19.	Explain the classification of CFCC (Cyber Fraud and Cyber Crime). What are the pre-search	10

20. What are the counterfeit documents? What are steps involved in detectional counterfeit documents? Give a brief note on the duties performed by the examiner. Also discuss the elements of a forensic report.

preparation required for the forensic investigation

- 21. Write short notes on the following: (any four)
  - (a) Cyber terrorism

2.5x4=10

- (b) Forensic Auditing
- (c) Logic bomb

case?

- (d) Cyber bullying
- (e) Identity theft

MSEI-027 (P)

00585

# POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

# Term-End Practical Examination June, 2018

MSEI-027 (P): DIGITAL FORENSICS

1 ime	: 3 hours	Maximum Marks: 100
Note	e: (i) Attempt 2 out of 3 question (ii) Viva-voce carries 20 mark	
1.	How to identify fake mail information of an email? Se fake-mailer and also from a gent show the header analysis of em	nd a mail using uine email-id and
2. <b>VV</b> V	How to retrieve the deleted data Show the steps involve in it.	
3.	Do penetration testing and Inforon http://www.rediff.com, tryinformation as more as it cagenerate the final report.	y to find out the

**MSEI-027** 

# P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS) Term-End F---

December, 2018

**MSEI-027: DIGITAL FORENSICS** 

Time	: 2 hours	Maximum Marks : 50
Note	: (i)	Section A - Answer all the objective type questions.
	(ii)	Section B - Answer all the very short answer type questions.
	(iii) (iv)	Section C - Answer any two out of three short answer type questions.  Section D - Answer any two out of three long answer type questions.
1.		SECTION - A  (Attempt all the questions)  is the full form of BIOS. 1
2. <b>W</b> W	started a (a) ma (b) exi (c) int	er forensics involves all of the following activities except: anipulation of computer data. traction of computer data. terpretation of computer data. terpretation of computer data.
3.	processe (a) hig (b) lov (c) for	is prepared in three processes. This s include all of the following except: gh-level formatting v-level formatting matting rititioning

4.	All of the following are examples of real security and privacy risks except:				
		hackers	(b)	spam	
	` '	viruses	(d)	•	
5.	majo (a) (b) (c)	or data process	sing func ata ata into i e data or	information	1
6.		nputer gather w users to		nich means that they data.	1
7.	good it? (a) (b) (c)	Chain of cus	e a forens stody wipe e and Ope	e, why would it be a sic drive before using erating systems	1 RL
8.	Whi repli	ch duplication ica of the origin Bit-Stream C	on metho inal drive Copy (b)	d produces an exact ? Image Copy Drive Image	011
9.	The	binary lang		sists of two digits:	1
10.		put devices sto J processes. True	ore instru	ctions or data that the	1

#### **SECTION - B**

## (5 very short answer type questions)

(Attempt all questions) Once you format your hard drive, does it erase 11. 2 everything or can information still be retrieved. Explain the difference between 12. 2 acquistion" and "post mortem acquisition". What is CoC (Chain of Custody) and why is it 2 13. important for evidence integrity? 14. What are the different formats for digital 2 evidence? What are the components of disk drives? 15. SECTION - C (Attempt 2 out of 3 Short answer type questions) 16. How can deleted data be retrieved from a PC? 5 How it is possible to know what Internet sites have been visited? State and explain the general tasks that the 5 **17**. investigators perform when working with digital evidence. 18. Describe procedures for acquiring data from cell 5 phones and mobile devices.

MSEI-027 3 P.T.O.

#### SECTION - D

(Attempt 2 out of 3 long questions)

- 19. What are the items that need to be considered for conducting an effective investigation for Cyber Crime?
- 20. What is Intrusion Detection System? How it is different from fire wall?
- 21. Write Short note on the following:

2.5x4=10

- (a) Logic Bomb
- (b) Admissible Evidence
- (c) Roof-kits
- (d) Hacking



MSEI-027 (P)

## POST GRADUATE DIPLOMA IN INFORMATION SECURITY (PGDIS)

# Term-End Practical Examination December, 2018

MSEI-027 (P): DIGITAL FORENSICS

Time: 3 hours Maximum Marks: 100 Attempt 2 out of 3 questions. Each question carries Note: (i) 40 marks. (ii) Viva-voce carries 20 marks. Try to use some wireless sniffers and display the 1. 40 list of Access points available with their details like SSID, MAC Address, Distance and Channel ID running at any particular instance. Generate the list of the USB devices with their details applied on the existing Operating System for the duration of last one week. 3. By misguiding SMTP and HTTP protocol, explain 40

the concept of Fake mailing and phishing attacks

and generate the final report.

**MSEI-027** 

Maximum Marks · 50

## P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

### **Term-End Examination**

01254

Time: 2 hours

June, 2019

**MSEI-027: DIGITAL FORENSICS** 

Note :		7							
Section	nA-A	Answer	<b>all</b> th	e obje	ctive i	type qu	estio <b>n</b> s.		
Section		Answer question		the	very	short	answ	er t	уре
Section		Answer answer				ns out	of thre	ee sh	ort
Section		Answer answer				ons ou	t of thi	ree lo	ong
			SE	CTIO	N A			-	<del></del>
Attemp	ot <b>all</b> t	he quest	tions.						
1		refe	ers to	the ur	nauth	orized	entry i	nto	
a	compu	ter syst	em.						1
2. Tì	ne firs	t step	in a	digita	l for	ensic j	process	is	
	<del>_</del>	<del></del> •							1
MSEI-0	27			1	,			P.T.	<b>O</b> .

3.	The name of website containing periodic posts is		
4.	is the collection of infected computers or bots that have been taken over by hackers.	1	
5.	A attacker entices computer to log into a computer, which is set up as an AP (Access		
		1	
6.	SSID stands for	1	
7.	SNMP stands for	1	
8.	IMAP stands for	1	
9.	In Microsoft file structure, sectors are rounded together to form	1	
10.	is the full form of BIOS.	1	
www	v.ignouassignmentguru.con	1	

### SECTION B

Answer all five very short answer type questions.

11. What are the techniques for obtaining and exploiting personal information for identity theft?
2
12. What is File carving and Bluesnarfing?
2
13. What is the difference between "copy of the drive" and "imaging of the drive"?
2
14. What is electronic tampering?
2
15. Define Windows Registry. Why is it important for

### SECTION C

**ASSIGNMENT GURU** 

2

5

Answer any **two** questions out of three short answer type questions.

phones and mobile devices.

forensics?

- 16. How can deleted data be retrieved from a PC?
  How is it possible to know what Internet sites have been visited?

  17. Explain any digital forensic investigation model.

  18. Describe procedures for acquiring data from cell
- MSEI-027 3 P.T.O.

### SECTION D

Answer any **two** questions out of three long answer type questions.

19. How is digital evidence processed? What are the steps involved in Evidence Acquisition? Explain with the help of hypothetical case.

10

20. What is the difference between WiFi and WiMax? Specify their standards, technical characteristics and security policies.

10

21. What are the issues involved with detection of cyber-crimes in India?

10

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Time: 2 Hours!

False

b)

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[Maximum Marks: 50]

## P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

### Term-End Examination,

### December 2019

MSEI-027: DIGITAL FORENSICS

*Note* : (i) *Section - A* :- *Answer all the objective type questions.* 

(ii)**Section - B**:- Answer all the very short answer type auestions. (iii) Section - C:- Answer any two questions out of three short answer type questions. (iv) Section - D: Answer any two questions out of three long answer type questions. Section - A Attempt all the questions. 1 Ubuntu is also \_\_\_\_\_. 1. 1 WAP stands for Wired Application protocol 2. True a) b) False EDGE stands for enhanced Data Rate for GSM 3. Environment. a) True

MSEI-027 P.T.O.

(2)

4.	HTTP stands for "Hyper Text Technical Protocol"  a) True  b) False	1
5.	TCP/IP protocol used behind ping command a) True b) False	1
6.	"TFTP" stands for	1
7.	DDOS stands for	1
8.	"SSIDs" stands for	1
9.	PDA stands for	1
10.	The name of Website containing periodic posts	Rl
	Section - B	1
Att	(Five very short answer type questions)	o in
	(Five very short answer type questions) empt all questions.	on
	(Five very short answer type questions)	<b>o n</b> 2
	(Five very short answer type questions) empt all questions.	2
11. 12.	(Five very short answer type questions)  empt all questions.  What is CDR? How it helps for Investigation?  Explain the difference between "Line acquisition" as	2 nd
<ul><li>11.</li><li>12.</li><li>13.</li></ul>	(Five very short answer type questions)  empt all questions.  What is CDR? How it helps for Investigation?  Explain the difference between "Line acquisition" as "Post mortem acquisition".	2 nd 2

(3)

#### Section - C

(Attempt two out of three short answer type questions)

- **16.** What are the legal issues involved in seizure of the computer equipment?
- **17.** What is IMEI? Why it is used in Mobile phone devices? How it is helpful in forensic investigation?
- **18.** Explain any two tools used in "Forensic examination of Mobile devices". 5

### Section - D

(Attempt two out of three long answer type questions)

- 19. What is the general process for conducting a digital investigation?
- 20. What are the counterfeit documents? What are the steps involved in detection of counterfeit document? Give a brief note on the duties performed by the examiner.
- **21.** Write short notes on the following:

 $5 \times 2 = 10$ 

- a) Harassment
- b) Admissible evidence
- c) SIM card acquisition
- d) Cyber bullying
- e) Human trafficking



### **MSEI-027**

# P. G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

Term-End Examination
June, 2020

MSEI-027: DIGITAL FORENSICS

Time: 2 Hours Maximum Marks: 50

Note: Section A: Answer all the objective questions.

Section B: Answer all the very short answer questions.

Section C: Answer any two questions out of three short answer type questions.

Section D: Answer any two questions out of three long answer type questions.

### Section—A

(Objective Type Questions)

Note: Attempt all questions.

1. The first step in a digital forensic process is

	[2] MSEI	027
2.	When performing a forensic analysis, w	hat
	device is used to prevent the system fr	om
	recording data on an evidence disk?	1
	(a) Write-Blocker	
	(b) Protocol analyzer	
	(c) Firewall	
	(d) Disk Editor	
3.	bots that been taken by hackers and are used	
	perform malicious tasks or functions.	1
WW4/	is a digital object that contains relia	ble
	information that supports or refutes	a
	hypothesis.	1
5.	is a programming instructions that	are
	complied into the executable files that are se	old
	by software development companies.	1
6.	GSM stands for	1

7.	is the international or uniternational			
	use of a portable USB mass storage device	to		
	illicitly download confidential data from	a		
	network endpoint.	1		

- 9. ...... is "an information resource whose value lies in unauthorized or illicit use of that resource".

10. TFTP stands for .....

### Section—B

### (Very Short Answer Questions)

Note: Attempt all questions.

11. Explain the advantages of wireless devices.

	[4]	MSEI-027
12. Explain the p	urpose of SHA algo	rithm. 2
13. Explain the p	urpose of CAPTCHA	A. 2
14. Which IT A	mendment Act, 20	008 Section is
applicable fo	r Data theft fro	m Removable
Drives ? Sugg	estions to prevent d	ata theft. 2
15. What is 802.1	1 Standard ?	2
ASS	Section—C	NT GURU
(Short A	nswer Type Quest	cions)
Note : Attempt any	y two questions.	tguru.com
16. Explain the d	lifferent parameter	s of Log File
Analysis.	···	5
17. Explain the wi	reless point security	v standards. 5
18. Explain the p	ourpose of CDR A	nalysis while
investigations.		5

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### Section—D

### (Long Answer Type Questions)

Note: Attempt any two questions.

- 19. Explain the modes of operation in wireless communications and different categories of WLAN.
- 20. How to implement the file attributes analysis?

  What is the process to reconstruct deleted files?
- 21. What is the difference between dead acquisition, live acquisition and error handling?

**MSEI-027** 

# P. G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

## Term-End Examination December, 2020

**MSEI-027: DIGITAL FORENSICS** 

Time: 2 Hours Maximum Marks: 50

**Note**: Section-A: Answer all the objective type questions.

**Section-B**: Answer all the very short answer type questions.

Section-C: Answer any two questions out of three short answer type questions.

Section-D: Answer any two out of three long answer type questions.

### Section—A

Note: Attempt all the questions. 1 each

1. MD5 use ...... bits encryption and SHA256 use ...... bits encryption.

Lot-I P. T. O.

	[2] MSEI-	027
2.	VOIP stands for	
3.	Which file system is used in Linux?	
4.	Write a command to create an image	of
	Pendrive using dd command.	
5.	SNMP stands for	
6.	EDGE stands for	
7.	Which IEEE standards are used for Blueton	oth
	technology?	
8.	IMSI stands for	
9.	Spam is the use of electronic messaging syste	em
	to send unsolicited bulk messag	ges
/W	indiscriminately.	con
	(a) True	
	(b) False	
10.	. When examining hard disk without a wri	te-
	blocker, you should not start windows becau	ıse
	windows will write data to the	

(a) Recycle Bin

	[3]	MSEI-027
(	b) Case Files	
(	c) BIOS	
(	d) MS DOS sys	
	Section—B	
${\it Note}:$ Attempt all the ${\it five}$ very short answer type		
	questions.	
11. F	Explain the concept of data integ	grity. 2
12. H	Explain the concept of file carvin	ng. 2
13. H	Explain the use of RADIUS.	2
14. F	Explain Man-in-the-Middle attac	cks. 2
15. I	Explain the Cyber Bullying.	
	Section—C	_
Note	:Attempt any <i>two</i> out of thre	ee short answer
	type questions.	
16. I	Explain the <i>five</i> rules of collection	cting electronic
e	evidence.	5
17. F	How is Money Laundering	different from
F	Banking Crime ?	5
18. H	Explain any <i>two</i> types of SPAM.	5

[4]

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### Section-D

- **Note**: Attempt any **two** out of three long answer type questions.
- 19. Explain any *three* WLAN Security Algorithms in detail.
- 20. Explain MAC Spoofing. Explain the concept of Encryption and Steganography.10
- 21. Explain file artifacts, file carving, file recovery,magic code and Hash functions with respect toCyber Forensics.

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