



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – NOVEMBER 2022

PCS1MC04 – DIGITAL FORENSICS AND CYBERSECURITY

Date: 30-11-2022

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION A

Answer ALL the questions

1 Answer the following questions (5 x 1 = 5)			
a)	Mention a major disadvantage of proprietary format acquisitions.	K1	CO1
b)	What is Geometry?	K1	CO1
c)	Notify the purpose of Hex Editor.	K1	CO1
d)	What are the phases involved in planning cybercrime?	K1	CO1
e)	What is Steganography?	K1	CO1
2 Fill in the blanks (5 x 1 = 5)			
a)	dcfdd is preferred -----tool.	K2	CO1
b)	The ----- stores information about partition on a disk.	K2	CO1
c)	Microsoft Outlook stores email in ----- and -----files.	K2	CO1
d)	----- is a criminal offence conducted by using SMS.	K2	CO1
e)	----- server is an intermediary for connections with other computers on that network.	K2	CO1

SECTION B

Answer any THREE of the following in 500 words

(3 x 10 = 30)

3	Illustrate the procedures for internet abuse investigations.	K3	CO2
4	Choose the best software tool for digital forensics and explain.	K3	CO2
5	Illustrate the steps for network forensics.	K3	CO2
6	Explain how to minimize attacks on mobile.	K3	CO2
7	Sketch out the plan for reducing attacks on wireless networks.	K3	CO2

SECTION C

Answer any TWO of the following in 500 words

(2 x 12.5 = 25)

8	Classify storage formats for digital evidence.	K4	CO3
9	Differentiate Linux and Macintosh file systems.	K4	CO3
10	How does cloud forensics differ from other digital forensics? Explain.	K4	CO3
11	Classify Authentication Service Security.	K4	CO3

SECTION D

Answer any ONE of the following in 1000 words

(1 x 15 = 15)

12	a) Evaluate forensics tools for the modern era of digital crimes. b) Compare the digital forensics in Physical and Virtual machines.	K5	CO4
13	a) Criticise the live acquisitions in digital investigations. b) Recommend a better approach to prevent cyber-attacks.	K5	CO4

SECTION E

Answer any ONE of the following in 1000 words

(1 x 20 = 20)

14	a) Develop a manual for acquisition in RAID disks. b) Propose an approach for recovering graphic files.	K6	CO5
15	a) Construct a policy framework to avoid cybercrimes. b) Modify the manual to enhance privacy issues.	K6	CO5

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