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B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Sixth & Seventh Semester

18CSE382T - FORENSICS AND INCIDENT RESPONSE

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
 ii. Part - B and Part - C should be answered in answer booklet.

PART - A (20 × 1 = 20 Marks) Answer all Questions			Max. Marks: 100			
			Mark	Marks BL		
1.	Computer Security incident is always (A) Lawful (C) Unacceptable	(B) Authenticated (D) Illegal	1	1	1	
2.	Choose the proactive step that should Incident (A) Pre-Incident Preparation (C) Data Collection	be taken before the Computer Security (B) Initial Response (D) Data Analysis	1	1	1	
3.	Which of the Response Strategy can be co (A) Interview with suspect (C) Make public affairs statement	onsidered for the DOS security attack? (B) Reconfigure router to minimize effect of the flooding (D) Investigation of theft	1	1	1	
4.	Who is solely responsible for the evidence (A) Evidence Custodians (C) Evidence Collectors		1	1	2	
5.	The evidence collected should be maintain not accessed by the unauthorized users. (A) Chain of Custody (C) Access Control List	(B) Access Specifiers (D) Evidence Duplication	1	1	2	
6.	Non Content Monitoring does not include (A) Port (C) Protocol	(B) IP Address (D) Application Software	1	1	2	
7.	Which of the following utility is used to c (A) ff (C) ee	reate forensics duplicate image? (B) dd (D) cc	1	1	2	
8.	Independent structure that allows to store (A) File Structure (C) File Map	and retrieve data is called as (B) File System (D) File Slag	1	1	3	
9.	The mapping of the files in the memory is (A) MetaData (C) File System	done by (B) MicroData (D) File Table	1	1	3	
10.	A initial section of disk at each partition is (A) FAT (C) Linked Array	s set restricted to maintain the (B) Linked List (D) Linked Stack	1	1	3	

11.	Which of the following is the most commo (A) Escalating Privileges (C) Password Cracking	n activity performed to break the system? (B) Information Collection (D) Track Dislocation	1	1	3
12.	A statement which is the result of an investinformation required is (A) Mail	estigation of any matter on which definite (B) Report	1	1	4
	(C) Application	(D) Contract			
13.	Identify the criteria which states the exact	purpose of the report.	1	1	4
	(A) Format	(B) Specification			
	(C) Title	(D) Revision Number			
14.	Rules created by the US supreme court that govern how evidence can be used in both civil and criminal cases			1	4
	(A) Federated rules of Evidence Act(C) Federated rules of Evidence	(B) Federated rules of Proof Act(D) Federated rules of Governance			
15.	Which of the following contain the bluepr		1	1	4
15.	(A) Firewall Entry	(B) ISA	•	•	7
	(C) Router Table	(D) Index Table			
16.	Which of the forensics software freely available.	ilable and open sourced?	1	1	5
	(A) Autopsy	(B) Encase			
	(C) FTK	(D) MS Office			_
17.	Which among the following cannot be con (A) System Logs	sidered as Digital Evidence? (B) Network Traffic	1	1	5
	(C) Eye Witness	(D) Application Logs			
18.	Why is the need of hashing in Digital Evidence?			1	5
	(A) To encrypt the data for security	(B) To verify the integrity of the digital			
	purpose (C) To delete all the apparent of floating the second of the sec	Evidence (D) To analyze the victim system			
10	(C) To delete all the unwanted files	(D) To analyze the victim system	1	2	<u>-</u>
19.	Which of the following analysis can be between all the evidence?	used to get an complete interconnection	1	1	5
	(A) Timeline Analysis	(B) Log File Analysis			
	(C) Recycler Analysis	(D) Route File Analysis			
20.	Which of the following tools should not be		1	1	1
	(A) Using undelete tools(C) Restoring files located in the	(B) Recovering .tmp files(D) Tools to retrieve data in Cache			
	Recycle Bin	Memory			
	$PART - B (5 \times 4 = 20 Marks)$			s BL	CO
	Answer any 5 Q	·			
21.	Show how the Digital Evidence is stored. Explain in detail.			1	3
22.	2. Explain the Pre-Incident preparation that has to be done in an Organization.			1	1
23.	3. State the ACPO Principles of computer based Evidence.			1	2
24.	1. Explain how to perform the Keyword Search effectively.			1	4
25.	5. State the guidelines to be followed during report writing in forensics investigation			1	5
26.				2	2
27.	7. Explain the different task performed by the computer forensics tools.			3	4
	$PART - C (5 \times 12 =$	60 Marks)	Mark	s BL	CO
	Answer all Que	·			

28.	(a) Illustrate the concept and provide the steps of Incidence response methodology process.	12	2	1
	(OR) (b) Explain the different types of Data Acquisition Formats along with its merits and demerits.			
29.	(a) What is Digital Evidence? State and Explain the general task that the Investigators perform when working with the Digital Evidence.	12	3	2
	(OR) (b) Analyze and write short notes on (a) Forensic Duplication - 6 Marks (b) Forensic Investigation - 6 Marks			
30.	 (a) Summarize the crucial role of File System in Cyber Forensics. (OR) (b) Discuss in detail about the following Terms. (a) Disk Partitions - 6 Marks (b) FAT Disks - 6 Marks 		3	3
31.	(a) Why corporate Investigations are typically easier than LAW Enforcement Investigations. Recommend the process of Investigation and Justify the Solutions.	12	3	4
	(OR) (b) Evaloin the vanious mitaria in the investigation and by CVRIV			
	(b) Explain the various criteria in the investigation procedure of UNIX system.			
32.	 (a) Explain the procedure for corporate investigations with respect to: a. Employee Termination Case - 6 Marks b. Email Abuse Case - 6 Marks 	12	2	5
	(OR)			
	(b) State the purpose of Forensics Too;s and Differentiate between the Hardware Forensic Tools and Software Forensic Tools in Detail.			

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