Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2022				
Subje		· · · · · · · · · · · · · · · · · · ·	ate:06/06/2022	
•		ame:Digital forensics		
_		_	otal Marks: 70	
Instru	ctions			
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
		Tigures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.		
	<b>4.</b> D	imple and non-programmable scientific calculators are anowed.	MARKS	
Q.1	(a)	Define metadata and recycle bin operation.	03	
Q.1	(b)	Explain Memory organization in brief.	04	
	(c)	Explain the use of digital forensic in social networking sites.	07	
	(0)		0.	
<b>Q.2</b>	(a)	Explain forensic science.	03	
	<b>(b)</b>	Explain Quality assurance in detail.	04	
	(c)	Explain Locard's Exchange Principle with suitable scenario.	07	
		OR		
	<b>(c)</b>	Explain The digital forensic process in brief.	07	
Q.3	(a)	Define Hardware and Software tools for digital forensics.	03	
	<b>(b)</b>	Give the advantages of live collection.	04	
	<b>(c)</b>	Discuss legal aspects and their impact on digital forensics.	07	
		OR	0.0	
<b>Q.3</b>	(a)	Discuss forensic cloning of evidence.	03	
	<b>(b)</b>	Write a note on Electronics discovery.	04	
	(c)	Discuss e-mail header forensic in brief.	07	
Q.4	<b>(a)</b>	Which are the computer-related crime?	03	
	<b>(b)</b>	Explain tool validation in context of quality assurance.	04	
	<b>(c)</b>	Explain Hashing concepts to maintain the integrity of evidence.	07	
0.4	( )	OR	0	
<b>Q.4</b>	(a)	What are the main challenges of investigating computer-related cri		
	(b) (c)	Explain Report drafting.  Define and differentiate Live and dead system forensic.	04 07	
	(0)	Define and differentiate Live and dead system forensic.	07	
Q.5	(a)	Explain Digital evidence.	03	
	<b>(b)</b>	Discuss techniques of Finding deleted data.	04	
	(c)	What is cache memory? Explain direct mapping of cache memor	y with <b>07</b>	
	•	example.		
o =		OR	0.2	
Q.5	(a) (b)	Explain electronic evidence.  Discuss techniques of hibernating files.	03 04	
	(11)	DISCUSS IECHHIQUES OF HIDCHIAHUS THES	\ J##	

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(c) Describe techniques to remove metadata.

**07**