

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER- VII EXAMINATION-SUMMER 2023****Subject Code: 3170725****Date: 30/06/2023****Subject Name: Digital forensics****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What is Digital Forensic?	03
	(b) List any four types of web attacks. How are these attacks investigated?	04
	(c) Explain Digital Forensic Process in brief.	07
Q.2	(a) Draw and explain control unit of basic computer.	03
	(b) Explain Flynn's Classification of computer.	04
	(c) What is Locard's exchange principle and how does it apply to digital forensics?	07
OR		
	(c) Explain order of volatility.	07
Q.3	(a) What is main memory explain with example.	03
	(b) What are the main challenges of investigating computer related crime?	04
	(c) Discuss e-mail header forensic in brief.	07
OR		
Q.3	(a) What is cache memory explain with example.	03
	(b) Give the advantages of live collection.	04
	(c) Discuss legal aspects and their impacts on digital forensic.	07
Q.4	(a) What is chain of custody in context of digital forensic?	03
	(b) Explain Quality assurance in detail.	04
	(c) Describe technique to remove metadata.	07
OR		
Q.4	(a) What is forensic cloning of evidence.	03
	(b) Write a short note on Report writing.	04
	(c) Explain Hashing concepts to maintain integrity.	07
Q.5	(a) Explain Digital evidence.	03
	(b) Write a brief note on eDiscovery.	04
	(c) Explain the use of digital forensic in social networking sites.	07
OR		
Q.5	(a) Explain electronic evidence.	03
	(b) Explain recycle bin operation.	04
	(c) Write a Short note on the electronic communication privacy.	07
