



*R20 Regulation* *Subject code: 3P7GF*  
**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
 (Autonomous, Accredited by NAAC with 'A+' Grade)

**B.Tech VII Semester Regular Examinations, December 2024**  
**COMPUTER FORENSICS**  
 (CSE(AI&ML))

**Maximum Marks: 70**

**Date: 04.01.2025**

**Duration: 3 hours**

- Note:**
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
  3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
  4. Each question carries 10 marks and may have a, b, c, d as sub questions.

**Part-A**

All the following questions carry equal marks		(10X2M=20 Marks)	CO	Bloom Tx
1	State the role of computers in a crime		1	1
2	Explain the problems with computer forensic evidence		1	2
3	Define Artifacts		2	1
4	Outline the need of evidential authentication		2	2
5	How to validate forensic data?		3	1
6	Write about how to secure a network		3	1
7	Explain how to trace an Email message		4	2
8	What role does data integrity play in mobile device forensics		4	1
9	Define a file system and its primary purpose		5	1
10	Why is the Registry important in Windows		5	1

**Part-B**

Answer All the following questions.		(5X10M=50Marks)	CO	Bloom Tx
11	A. Explain the use of computer forensics in law enforcement [5M] B. Demonstrate various Computer Forensics Services [5M]		1	2
<b>OR</b>				
12	A. Discuss the types of Business Computer Forensic Technology [5M] B. Illustrate the main challenges in capturing and preserving Digital Evidence. [5M]		1	2
13	A. Summarize the five rules of collecting electronic evidence. [5M] B. Outline the steps to duplicate and preservation of digital evidence [5M]		2	2
<b>OR</b>				
14	A. Explain the procedure of crime scene. [5M] B. Describe the Encase Tool in Digital Forensics [5M]		2	4
15	A. Describe the Process of Performing a Live Acquisition. [5M] B. Develop a standard procedures for network forensics [5M]		3	3

	OR		
16	A. Describe the General Process of Seizing Digital Evidence at a Crime Scene. [5M] B. Analyze how to collect evidence in Private-Sector Incident Scenes. [5M]	3	4
17	A. Elaborate the categories of computer forensics software tools [5M] B. Illustrate how do you validate and test forensics software [5M]	4	2
	OR		
18	Explain the process of investigating E-mail crimes and violations. [10M]	4	2
19	A. Demonstrate the NTFS Encrypting File System. [5M] B. Discuss the features of whole disk encryption. [5M]	5	2
	OR		
20	A. Discuss the process of setting environment variables in MS-DOS Startup. [5M] B. Summarize the benefits of using Virtual Machines [5M]	5	2