



R17 Regulation

Subject code: 1E7EH

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VI Year I Semester Supplementary Examinations, January 2023

COMPUTER FORENSICS

(Computer Science and Engineering)

Maximum Marks: 70

23/01/2023

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)

- 1 Define "Computer Forensics"!
- 2 Write about computer records?
- 3 List out the properties handled at the drive's hardware.
- 4 Define Virtual machine.
- 5 Define steganography.
- 6 List the various strategies to access the records for investigation purpose.
- 7 Describe available computer forensics software tools
- 8 Describe validation and discrimination?
- 9 List some options for decrypting drives encrypted with whole disk encryption
- 10 Write MS-DOS startup tasks? †

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 A. Outline the types of Computer Forensics Technology? 5
B. Explain about computer forensics assistance to Human resources? 5
OR
- 12 A. Outline types of Business computer forensic technologies? 5
B. Explain the role of back-up in Data Recovery? 5
- 13 A. Explain the types of evidence? 5
B. Explain about legal aspects of collecting and preserving computer forensic evidence 5
OR
- 14 A. Outline the processing steps of computer evidence? 5
B. Explain how AUTHENTICODE works with VERISIGN DIGITAL ID? 5
- 15 A. Examine in detail about the techniques used for Addressing Data Hiding. 5
B. Explain guidelines for seizing digital evidence at the scene? 5
OR
- 16 A. Describe how to secure a computer incident or crime scene 5
B. Explain about processing law enforcement crime scenes? 5

- 17 A. Describe methods for validating and testing computer forensics tools 5
B. Briefly generalize the roles of the following terms in an investigation:- 5
(i) E-mail in investigation (ii) E-mail in Client and Server
- OR
- 18 A. Explain how to evaluate the needs for computer forensics tools. 5
B. Describe procedures for acquiring data from cell phones and mobile devices. 5
- 19 A. Describe Microsoft file structures. 5
B. Explain how the Windows Registry works. 5
- OR
- 20 A. List some options for decrypting drives encrypted with whole disk encryption. 5
B. Explain the structure of Technology topology File System (NTFS) disks. 5