



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code:2E7EH

B.Tech VII Semester Supplementary Examinations, July 2022

COMPUTER FORENSICS

(Computer Science and Engineering)

Maximum Marks: 70

Date:05.07.2022 Duration: 3 Hours

- Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B consists of 10 questions. Answer any 5 questions which carries 12M.
4. Each question carries 12marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is forensic science? What is computer forensics? How is it different from other related fields?
- 2 What are the categories of computer investigations and forensics? Explain
- 3 What is Data Recovery?
- 4 What is the role of Data in forensic analysis?
- 5 What is preservation of Digital crime scene.
- 6 Explain duplication of Digital Evidence.
- 7 What is the role of documentary evidence in collection of evidence?
- 8 Why are computers considered as major primary source of evidence these days?
- 9 a. What is domain name system?
b. What is a URL.
- 10 Role Ip address in computer forensics?

Part-B

Answer all the questions

(10 MX 5=50Marks)

- 11 Explain Data Collection, Analysis, Presentation and their role in Computer forensic Investigations. (10M)

OR

- 12 Describe the standard Computer forensic Investigation Model. (10M)

13 A. Explain in detail about. (5M)

- i. Incremental Backup
- ii. Differential Backup

B. List out the pro's, con's & applicability of Incremental and Differential backups. (5M)

OR

14

A. What are the recommended backup features. (5M)

B. Role of Backups in data recovery. (5M)

15 Explain the concept of Digital ID's and Authentication Technology. (10M)

OR

16 Rules and protocols for capturing the evidence. (10M)

17 a. Explain the role of Emails in day-to-day life & its need for analysis in computer forensics. (5M)

b. Explain the methodology to archive the email evidence. (5M)

OR

18 a. What is the role of SOP's in processing the digital evidence? (5M)

b. List down SOP's to be followed by the competent authorities while processing the evidence. (5M)

19 How do you extract extracting potential forensic artifacts from a computer explain with a use case? (10M)

OR

20 Write a brief note on disk and data capture tools used in computer forensics along with one example. (10M)