2904E284 Candidate's Seat No :_____

Integ M.Sc. CSF (Rep) Semester-4 Examination
ICSF-208
Fundamentals of Digital Forensic

Time : 2-30 Hours] April-2024 [Max. Marks : 70

Ques.1 Answer the following questions:
  i. Describe in detail the stages of computer forensics and processes involved in Computer Crime Investigation. 7Marks
  ii. Explain in detail the steps for Forensics Readiness Planning. 7Marks
  OR
  i. Explain the Role of the Forensics Investigator in detail. 7Marks
  ii. Illustrate the steps for forensics readiness planning in detail 7Marks

Ques.2 Answer the following questions:
  i. What are the various technical, legal, and administrative issues faced by computer forensics? 7Marks
  ii. Explain the importance of Slack Space while investigating and how slack space can be helpful to gather evidence, with the help of an example. 7Marks
  OR
  i. Explain the process of recovering deleted files in detail. With an example 7Marks
  ii. What is volatile data? What is order of volatility of digital evidence? Explain 7Marks

Ques.3 Answer the following questions:
  i. How is registry information important in windows forensics? 7Marks
  ii. Explain in detail the working of the HDD with an example. 7Marks
  OR
  i. Describe in detail Data Organization in Windows. 7Marks
  ii. Explain the steps to acquire data/information from an electronic device, with example. 7Marks

Ques.4 Answer the following questions:
  i. Explain in detail the working TCP/IP model layers. 7Marks
  ii. How are the network logs captured and analysed? Explain 7Marks
  OR
  i. Define forensic science and explain its relevance to cyber forensics. 7Marks
  ii. Discuss the key elements to consider when writing a forensic report. 7Marks

Ques.5 Attempt any seven out of twelve. 14Marks
  1. True or False: Examination of browser cookies can reveal user activity on the internet. Explain why.
  2. What is the role of a forensics investigator?
  3. List the processes involved in Digital Forensics?
  4. What are the issues faced during computer forensics?
  5. True or False: Cookies can store information about user's web browsing behaviours, which can be analysed in forensics. Explain why.
  6. Define the term first responder
  7. Define swap space
  8. What is file carving?
  9. Define slack space
  10. What is a switch? Write its purpose
  11. List the layers present in OSI model
  12. What is a Hub? Mention the use of Hub.