

Q. P. Code: 11261

(Time: 2 $\frac{1}{2}$ hours)

[Marks: 60]

Please check whether you have got the right question paper.

- N. B.: (1) **All** questions are **compulsory**.
(2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.
(3) Answers to the **same question** must be **written together**.
(4) Numbers to the **right** indicate **marks**.
(5) Draw **neat labeled diagrams** wherever **necessary**.
(6) Use of **Non-programmable** calculator is **allowed**.

Q1 Answer any two of the following: 12

- a Why is it necessary to maintain professional conduct during computer investigation? How can this be maintained?
- b Enumerate the basic steps for investigating Attorney-Client Privilege investigations.
- c What are the physical requirements for computer forensics lab?
- d What are the concerns while getting an image of a RAID server's disk? List some vendors offering RAID acquisition functions.

Q2 Answer any two of the following: 12

- a What do we need a technical advisor? What are the responsibilities of technical advisors?
- b What are the three rules for forensics hashes? How can we obtain digital hash?
- c What is windows registry? Explain the following terms of windows registry: Registry editor, HKEY, Key, Subkey, branch, value, default value, hives.
- d Discuss the validation and discrimination issues when dealing with computer evidence.

Q3 Answer any two of the following: 12

- a Explain the four components of UNIX that define the system.
- b Why an investigation plan may require refining and modification? Explain with example.
- c What is steganography? How can steganography files be identified?
- d Discuss the copyright issues with graphics.

Q4 Answer any two of the following: 12

- a What are the primary concerns in conducting forensic examination of virtual machines?
- b List and explain the tasks in investigating e-mail crimes and violations.
- c Explain technologies used by 4G networks.
- d Explain iPhone readers.

Q5 Answer any two of the following: 12

- a Mention criteria which should be used to write reports.
- b What is the major advantage of automated forensics tools in report writing?
- c What are the general rules for using graphics during testimony?
- d What are the traps about which the experts should be cautious? What ethical errors should be avoided while testifying?