

Time: 2:30 Hours

Marks: 75

N.B.

- 1) All Questions are compulsory
- 2) Figures to right indicates marks.
- 3) Illustration, I depth answers and diagram will be appreciated.
- 4) Mixing of sub-questions is not allowed.
- 5) Each question carries 5 marks.

Q.1 Attempt any three of the following:

15 Marks

- a) What is the use of computer forensic in law enforcement?
- b) What are services provided by computer forensics?
- c) Write a short note on firewall. Explain its types.
- d) What do you mean by Network disaster recovery plan? Explain.
- e) Explain Key management life cycle in Public key infrastructure.
- f) Explain role of CA in Public key infrastructure.

Q.2 Attempt any three of the following:

15 Marks

- a) What are the obstacles to backing up applications?
- b) What are rules of collecting electronic evidence?
- c) Explain how Authenticode works with Verisign digital ids
- d) Explain the concept of Network Time Protocol (NTP)
- e) Explain How to become a digital detective?
- f) Explain in your words that Recovering electronic data is only the beginning.

Q.3 Attempt any three of the following:

15 Marks

- a) What are sources of network based evidence?
- b) Write a short note on TCP and UDP.
- c) Explain some traffic acquisition software.
- d) Write a short note on OSI model.
- e) Distinguish between IPv4 and IPv6.
- f) Write a short note on web proxy.

Q.4 Attempt any three of the following:

15 Marks

- a) What are the steps in the mobile forensics process?
- b) Differentiate between non-invasive vs. Invasive forensics
- c) Give and explain the list of information that resides on mobile devices (a non-exhaustive list)
- d) What is the mobile forensics process?
- e) Write a short note on JTAG method.
- f) What is importance of logs in investigation? Explain.

Q.5 Attempt any three of the following:

15 Marks

- a) What are benefits of professional forensic methodology?
- b) What are the the role of back-up in data recovery?
- c) What are Factors affecting Data Backup?
- d) Write a note on Types of Evidence.
- e) Write a note on SSH.
- f) Write a short note on Router and switches.
