

Syllabus for the post of Scientific Officer (Digital Forensics) in H.P. State Forensic Science Laboratory, Home Department, H.P.

Unit-I

General Forensic Science- Definition, History and Development of Forensic Science, Principles and scope of Forensic Science, Crime Scene Management, Type of Evidence, Chain of Custody, Integrity of Evidence, Report writing, Expert testimony and related laws, Concept of Quality Management System, Laboratory Information Management Systems, Research Methodology, Plagiarism, Ethics.

Unit-II

- A. Architecture of computational devices, History and Development of computers and its peripheral devices, and other electronic gadgets, Memory and its types, knowledge of windows, Linux, Macintosh operating systems, concept of file system, Network components-routers and switches, write blockers, Basics of encryption, IP address and mac address.
- B. Search and seizure of digital evidences, live data acquisition, knowledge of DD, Raw, E01 imaging system, knowledge of disk cloning, concept of Hash value, digital signatures, recovery tools and the knowledge about Forensic software for the analysis, digital evidences in computer, mobile phone, CCTVs, Digital camera etc.
- C. Cyber crime and its types, Internal and external attacks, detection of financial frauds, knowledge of dark web, network threat and vulnerability, Cloud technology.
- D. Knowledge about IT Act and other international laws on digital crime investigation and prosecution.

(80 questions of 80 marks)

Unit-III

Ten (10) questions consisting of General Knowledge pertaining to state of Himachal Pradesh.

Ten (10) questions consisting of General Knowledge of National & International affairs.

(20 questions of 20 marks)

The Screening Test (CBT/Offline) will be of 100 marks of two hour duration.