

HP BOARD OF DEPARTMENTAL EXAMINATION  
HIMACHAL PRADESH, SESSION ~~OCTOBER~~, 2020  
*September*

PAPER-3

RULES & ACTS FOR DIRECTORATE OF FORENSICS SERVICES  
DEPTT. (TECH.) (WITHOUT BOOKS)

TIME ALLOWED: 3 HOURS.

MAXIMUM MARKS: 100

- NOTE:
1. Attempt five questions only. One question each from section A,B,C,D and section E is compulsory.
  2. All questions carry equal marks.

(Section-A)

- Q.1 a.) What is forensic Science? Discuss Law of probability with suitable illustration.  
b.) Define quality. Discuss NABL accreditation of a forensic lab and its advantages.  
(10X2=20)

- Q.2 Write short notes on:-  
a.) Atomic Absorption Spectroscopy  
b.) Expert Witness  
c.) SEM-EDX  
d.) Section-52 A of NDPS Act

(5X4=20)

(Section-B)

- Q.3 a.) Discuss methods of detection of blood stain found at the crime scene.  
b.) Describe different physical methods for development of latent finger prints.  
(10X2=20)
- Q.4 a.) DNA profiling is important technique in ascertaining innocence or guilt in crime investigations. Comment.  
b.) Define diatomology. Discuss detection of diatoms from a bone samples and its significance.

(10X2=20)

(Section-C)

- Q.5 a.) Describe role of forensics in road accident. Discuss method of determining speed of vehicle from skid marks.  
b.) Describe instrumental and chemical methods for restoration of chassis number in a stolen vehicle.

(10X2=20)

- Q.6 a.) Define Voice spectrograph. Discuss principles of voice analysis with reference to modern tools.  
b.) Scientific tools of interrogation helps in protection of human rights. Comment.  
(10X2=20)

(Section-D)

- Q.7 a.) Describe method of extraction of poison from visceral organs.  
b.) Discuss instrumental method of detection of alcohol from human body fluid and its significance.  
(10X2=20)

- Q.8 Write short notes:-  
I) Designer drugs  
II) Petrol adulteration  
III) Heroin  
IV) Environmental Forensics

(5X4=20)

(Section-E)

- Q.9 Explain the following:-  
I) TRAFFIC  
II) mt DNA  
III) Proficiency testing  
IV) LIMS  
V) Arson  
VI) Fiber  
VII) Ligature mark  
VIII) Maggot  
IX) Primary explosive  
X) Digital signature

(02X10=20)