

**TAMIL NADU PUBLIC SERVICE COMMISSION  
HALF YEARLY EXAMINATION AND LANGUAGE TEST**

**ANNEXURE-VI  
FORENSIC SCIENCE**

<b>S.No</b>	<b>TOPICS</b>
1	Forensic Science and its Role in Crime Investigation
2	Examination and preservation of SOC SOP on Crime Scene visit.
3	Collecting, lifting, packing, labelling and forwarding of physical exhibits
4	Finger prints - Importance, classification, types of Impression, collecting (lifting, photographing), recording (Ten digit and single digit records), Identification and palm prints (Methodology - lecture and demonstration)
5	Footprint, footwear prints, tyre impressions & Tread marks -Importance, location, collection (casting demo) and examination
6	Glass and paints - Importance, location, collection and examination.
7	Forensic Documents Disputed documents, Admitted signature documents, Requested specimen, Identification of signature and handwriting, Examination of forgery and detection. Disguised writings, Alteration, obliteration interpolation, interlineations, Erasure and decipherment, Indented writing, Examination of stamp and seal Impressions, Examination of paper (Non-destructive) - Torn paper comparison, Examination of Ink (Non-destructive), Examination of photocopied documents, Sequence of strokes, Examination of printed documents, Procedures for sending the documents, Handwriting characteristics, Video special comparator, Stereo - Microscope
8	Counterfeit currency and accessories used to print them - Importance, collection and examination. High quality counterfeit currency - seized under UAPA act
9	Restoration of erased Identification numbers and tool mark examination
10	Digital Image, audio and video examination - speaker Identification, genuineness of image, audio and video recordings - Its Importance, collection and forwarding
11	Photography in Police work, Crime Scene Photography and Video graphy Laboratory Photography and Photography in Court work. (Methodology- Lecture & demonstration)

12	Introduction to Forensic Ballistics - Firearms - Types & classification - Gauge or caliber - Cartridges and their components - Identification of firearm which fired the cartridge case/bullet - Characteristic marks for comparison - Class/Individual characteristics - Determination of Range from which fired - Target examination - Gunshot effects & GSR - Guidelines for collection and forwarding of physical evidence - Instruments related to Forensic Ballistics.
13	Detailed explanations of Possible forensic examinations in the digital media - Limitations of Digital Forensic Examination. SOP on Search & Seizure of Digital Evidence.
14	Introduction to Forensic biology, Examination of blood and other body fluids, Field level forensic tools for application: alternate light sources, Detection of Body fluids, Examination of hair, fiber, semen & diatoms, Identification of wood and its comparison, Identification of plant material
15	Blood grouping in Forensic Serology- Antigen, Antibody, Rh factor, Secretor & Non-Secretors
16	Skull-Photograph Superimposition Technique in Forensic Anthropology, Identification of individuals appearing in the video footages by comparison of facial features
17	Portrait Parle (Methodology - Lecture & Demonstration).
18	DNA typing technique
19	DNA Finger Printing (Methodology - Lecture & Demonstration). Brain Mapping Test or Truth Serum Test & Lie Detector Test or Polygraph (Selvi Vs. State) - SC Judgment
20	Alcohols, Drugs, Fuel, Narcotics, Kits for detection of NDPS and Poisons
21	Bomb detection and disposal
22	Forensic of Explosive substances, Field level Forensics tools for explosives
23	Soil, dirt and dust
24	Forensic aspects of arson- The Chemistry of fire - Searching of the fire scene - Importance of Burnt remains - Nature of burnt remains - Collection and preservation of arson evidence - method of examination - Fuel adulteration
	<p><b><u>Practicals</u></b></p> <p>a. Lifting &amp; Developing of Finger Prints = 03</p> <p>b. Casting of Foot Prints = 02</p> <p>c. Lifting, Handling, Packing and Labelling &amp; Forwarding of exhibits to FSL = 02</p>