



Preliminary Examination:-

An examination of a dispute document is a scientific problem and it is no longer confined to comparison of signature or writing but it also includes examination of ink, typed matter, printed matter, watermark, and all other elements that combine together to form a document. The examination of a document is not complete until its every element has been studied and examined thoroughly.

Instruments used:-

- Scale → Measurement.
- Magnifying glass → To enlarge any miniature writing.
- Stereo microscope →  To determine the sequence of strokes (which stroke is written 1st and which is put over it. Eg: 'm' ← 'm', then 'o')
- Comparison microscope →  To examine the miniature writing.
- Light sources →
 - Alternate light source.
 - Transmitted light source - For examination of watermark.

- **Oblique light** - > light at 45° ; for examination of indented writing.
 - > Examination of diecut lines in passport.
- **UV light** - > 'secret writing' analysis (written with vaginal fluid, juices, latent prints on documents)
- **IR light** - > If ink contains heavy metals, in secret writing
 - > Obliteration of writing is analysed.