

Sample extraction techniques and removal of interference from sample extracts: Classification and principle and efficiency of the technique. Mechanism of extraction. Technique of extraction: batch, continuous and counter current extractions. Extraction techniques, such as headspace extraction, liquid liquid extractions (LLE), solid phase extraction (SPE) membrane–based extraction, micro extraction techniques, solvent extraction, pressurized liquid extraction (PLE), microwave assisted extraction (MAE), ultrasonication and supercritical fluid extraction (SFE). Qualitative and quantitative aspects of extraction.


Statistics: Type of data, measure of central tendency, dispersion of data, correlation, probability and proof.

analysis of incendiary material from debris. Analysis of petroleum products for adulteration. Analysis of Dyes used in trap cases.


Ten (10) questions consisting of General Knowledge pertaining to state of Himachal Pradesh and ten (10) questions consisting of General Knowledge of National & International affairs. The Screening test will be of 100 marks to be attempted in two hour"