

IPAN-SoTLAN CONFORMANCE SYSTEMS LTD.

EXAMINATION CONTENT OUTLINES

CERTIFIED LABORATORY ANALYST (CLA)

KSAs Code	Test Content Area(s)	Number of Questions (100)
1.	Basic physical, chemical and microbiological properties of samples analyzed in an analytical laboratory.	7
2.	 Methods and techniques used in qualitative and quantitative laboratory analysis of samples; Perform qualitative and quantitative laboratory analyses; Perform physico-chemical and biological analyses on laboratory samples. 	40
3.	 Sampling methods, sample preparation and preservation techniques; Perform proper sampling, sample preparations and preservations. 	8
4.	The operation and maintenance of basic laboratory equipment including conducting routine calibration of externally-calibrated laboratory equipment to ensure their continuous accuracy and traceability.	10
5.	 Laboratory hazards, safety precautions and procedures; chemical hygiene and laboratory protective equipment; Adhere to established safe working practices, including oral and written instructions. 	5
6.	 Laboratory chemicals and media, methods for preparation of standardized reagents and media; Read, comprehend and comply with approved procedures in preparing standard reagents and media. 	5
7.	 Methods of cleaning and storing laboratory glassware; Clean and prepare laboratory equipment, glassware and ensure observance of good laboratory practices (GLP). 	5
8.	1) Basic laboratory calculations with regard to results of laboratory analysis; 2) Perform routine and basic laboratory calculations and statistical analysis.	10
9.	1) Communicate clearly and concisely in oral and written English language; 2) Maintain accurate, reliable and necessary/required information with regard to all laboratory analysis and records.	5
10.	Establish and maintain good interpersonal and effective working relationships within a team and with clients.	5