
TEST INFORMATION GUIDE

This test information guide provides a summary of concepts that are tested on the written (multiple-choice) examination for the **Clinical Laboratory Technician I** job. This information can be reviewed in combination with the class specification and examination announcement to assist you in preparing for the examination.

I. GENERAL LABORATORY PRACTICES & PROCEDURES (16 Questions)

Knowledge of laboratory operations, including calculations and principles of analytical methods, is required to perform this job. Employees must interpret laboratory results and demonstrate the ability to make sound judgments regarding pre-analytical, analytical and post-analytical test procedures and results. The questions in this section test your knowledge of basic laboratory practices and procedures. Test question topics include:

- Interpreting blood smears;
- Protective laboratory equipment;
- LAP scores;
- Adjusting laboratory equipment such as microscopes;
- Measuring dilution of liquids;
- Safely managing spills of toxic chemicals in the laboratory;
- Safe handling of specimens;
- Enzyme tests.

II. CHEMISTRY & IMMUNOLOGY (16 Questions)

Employees in this job must be knowledgeable of basic biochemistry and principles of immunology. Employees must be familiar with chemical reactions, the relationship between the selected test, the result and the associated pathology. The employee must also be able to interpret results of chemical analyses by reviewing the relationship between the expected values and accept, reject or refer the results. The questions in this exam section test your knowledge of chemistry and immunology concepts. Test question topics include:

- Jaffe reactions;
- Enzyme ASSAY;
- Factors affecting enzyme activity;
- Urine to serum osmolality ratio;
- Immunoglobulins;
- Rheumatoid factor;
- Diagnosing infectious disease from laboratory tests;
- Detecting biologic false positive results;
- Immune complexes.

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III. HEMATOLOGY & COAGULATION

(16 Questions)

Employees in this job are expected to possess knowledge in the areas of hematology and coagulation. An employee must be familiar with the instrumentation and the methods associated with testing as well as be able to demonstrate a knowledge of the relationship between the test result and the associated pathology. The questions in this section of the exam test your knowledge of critical hematology and coagulation concepts. Test question topics include:

- Hemoglobin measurement;
- Interpreting peripheral blood smears;
- Red cell inclusions;
- Erythrocyte morphology;
- Coagulation factors;
- Platelet clumping on blood smears;
- Using automated hematology instrumentation;
- Interpreting activated partial thromboplastin test results;
- Interpreting thrombin control results.

IV. BODY FLUIDS

(16 Questions)

An employee in this job must demonstrate a basic knowledge of the structure and function of the kidney and the use of the urinalysis in confirming health or identifying a pathological condition. The employee must also be able to evaluate specimens and test results and appropriately accept or reject the values. The questions in this exam section test your knowledge of body fluids commonly encountered in clinical laboratory work as well as basic parasitology. Test question topics include:

- Diseases characterized by enzyme absence or deficiency;
- Measurement of urinary pH range;
- Use of occult blood tests;
- Analysis of urinary specimens;
- Identifying parasites in specimens;
- Safe collection and transportation of fecal samples;
- Reviewing Gram's stain screens.