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Medical laboratory technology multiple choice questions pdf

Here are 20 practice questions for the OSMT (Ontario Society of Medical Technologists) exam. For the full set of 360 practice questions, see . 1. Glassware used to measure 24 hour urine volumes is a: a. volumetric ask b. beaker c. erlenmeyer cylinder d. graduated cylinder e. safety bulb Answer: d. graduated cylinder 2. Glassware used to make 100 mls of a 12% solution is a: a. volumetric ask b. beaker c. erlenmeyer cylinder d. graduated cylinder e. safety bulb Answer: a. volumetric ask 3. A suction device used to draw up liquids is a: a. volumetric ask b. beaker c. erlenmeyer cylinde d. graduated cylinder e. safety bulb Answer: e. safety bulb 4. The pipette with a bulged out portion in the middle is a: a. mohr pipette b. pasture pipette c. serological pipette d. volumetric pipette e. micro-pipette Answer: d. volumetric pipette 5. Which piece of glassware would not give critical measurement: a. volumetric ask b. beaker c. erlenmeyer cylinder d. graduated cylinder e. safety bulb Answer: b. beaker 6. The durable material used to make heat resistant glassware is: a. polyethylene b. soda lime c. polystyrene d. borosilicate e. polyvinyl chloride Answer: d. borosilicate 7. Solid crystals of potassium oxalate are added to distilled water in a container. What term would describe the potassium oxalate? a. solution b. solvent c. solute d. reagent e. a & c Answer: c. solute 8. The destruction of all micro-organisms including spores is called: a. sanitation b. antiseptis c. sterilization d. disinfection e. asepsis Answer: c. sterilization 9. A ug is a unit to describe: a. time b. volume c. distance d. weight e. length Answer: d. weight 10. A pH of 2 is _____ than a pH of 5: a. 1000 times more acidic b. 100 times more acidic c. 2 times less acidic d. 20 times less acidic e. 1000 times more acidic Answer: e. 1000 times more acidic 11. Cells in a hypertonic solution will: a. swell and burst b. dehydrate c. hemolyze d. not be affected e. stop mitosis Answer: b. dehydrate 12. The solution used to x a pap smear is: a. wright stain b. hematoxylin c. physiological saline d. cytospray e. methylene blue Answer: d. cytospray 13. Blood for an RBC count must be prepared from: a. EDTA blood b. citrated blood c. heparinized blood d. oxalated blood e. clotted blood Answer: a. EDTA blood 14. Which reagent is not routinely used to preserve tissue in a life-like manner: a. formic acid b. zenkers uid c. 40% formaldehyde dissolved in water d. bouin's uid e. 10% formalin Answer: a. formic acid 15. Which piece of histology equipment is not temperature dependant: a. wax b. tissue processor c. microtome d. embedding center e. waterbath Answer: c. microtome 16. A biopsy is: a. a removal of biological uid b. the removal of an organ c. a post mortem examination d. excision of a representative tissue sample e. a collection of blood Answer: d. excision of a representative tissue sample 17. During tissue processing, what is the correct sequence of steps: a. clearing, dehydration, infiltration b. clearing, infiltration, dehydration c. dehydration, infiltration, clearing d. dehydration, clearing, infiltration e. embedding, sectioning, staining Answer: d, dehydration, clearing, infiltration 18. Fixation is important in tissue processing because it: a. prevents cell morphology changes and shrinkage b. allows tissue to be examined in a life-like condition c. facilitates the staining process d. a & c e. a, b, & c Answer: e. a, b, & c 19. The liquid portion of blood remaining after a clot has formed is called: a. the buffy coat b. serum c. plasma d. lymph e. tissue uid Answer: b. serum 20. Which test cannot be performed on a serum sample? a. Iron b. Vitamin B12 c. Total lipids d. Clotting factors e. Potassium Answer: d. clotting factors . The book 'Multiple Choice Questions in Medical Laboratory Science' contains objective questions. It is believed to build confidence in the students on the topics related to pathology and diagnosis. The pattern of questions in this book has been designed to help while preparing competitive exams such as CSIR-UGC NET, PhD entrance test and many more test. The questions in this book may help the students of various UG and PG programs such as MBBS, BAMS, MLT, Optometry, Dietetics & Nutrition, Nursing, Microbiology, Biotechnology and many other paramedical programs. The MLT test is a certification offered by the American Medical Technologists (AMT) association and the ASCP Certification Board, and it is administered by schools and also by Pearson VUE. Earning your MLT certification demonstrates your dedication, professionalism and preparation as a medical laboratory technician.We've developed this article to give you more background information and help you prepare to sit for the Medical Laboratory Technician (ASCP) exam. You'll learn what the exam will cover, plus other information around test logistics as you work toward MLT exam success.MLT Study GuideMLT FlashcardsMLT Exam EligibilityThere are four accepted routes of eligibility, one of which you'll need to complete to sit for the MLT exam.Route 1: Education - An associate degree from an accredited institution or program (by a recognized regional or national accreditation agency) in medical laboratory technology.Route 2: Alternate Education - Must complete two years or more (60 semester hours) of courses in a regionally or nationally accredited institution, including a minimum of 25 semester hours in clinical laboratory science such as biological or chemical studies, math and/or computer science (note that no more than 6 hours of math and/or computer science can count toward the 25-hour requirement). Must also complete at least 6 months of approved clinical laboratory experience including rotation through the blood banking, microbiology, chemistry and hematology areas of the laboratory.Route 3: Military - Must finish a 50-week U.S. military medical laboratory training program, and those credits must have either been earned in or accepted for transfer by an accredited college or university.Check Out Mometrix's MLT Printed Study GuideRoute 4: Other Recognized Exam - If taking this route for eligibility, you must pass a generalist MLT exam from another certification body or state licensing agency, provided that the other exam is approved by the AMT Board of Directors. Also, your state license or certification must be active. In addition, you'll need to document that you've been part of an education program within the past year, or that you've been employed (within the past five years). No exam is needed.Application DetailsApplication for the MLT exam is completed online. Once you register, your application will remain in effect for one year. After that time, if you haven't taken the exam, you'll need to pay a new exam fee.Costs/Payment OptionsThe MLT testing fee is \$175 and includes your application, your exam and your first annual fee. The fee is non-refundable and can be paid using a credit card or debit card only.Times/LocationsIn some cases, the MLT exam may be available at your school. In that case, your faculty will be able to provide you with details for times and specific locations. If you aren't sitting for the exam at your school, you may choose to take the exam at a Pearson VUE testing center. Once you apply, you'll be sent an official AMT letter with next steps on scheduling your testing time and location. Note: Please plan to arrive 30 minutes before your scheduled exam time.Test DurationThe MLT exam is scheduled to take two and a half hours.What to BringTwo forms of matching identification (both IDs must have the same name), showing your name, signature and at least one of the IDs showing your photo (including IDs such as a passport, a driver's license, state ID, or military ID). Other types of IDs, including FOID, firearms, benefits, or concealed carry cards are not valid forms of ID for the MLT exam.Your authorization letterWhat Not to BringIn general, avoid bringing any personal items with you.Format and Number of QuestionsThe MLT exam is computer-based. The test consists of 100 multiple-choice questions. Each question will have one correct answer. The exam uses computer adaptive testing (CAT), which means the test will adapt to your level of knowledge as you make your way through the exam. What this means is that each time you correctly answer a question, the computer will select the next question that is relatively a little more complex. This approach continues until you answer incorrectly. At that point, the computer will select a relatively easier question for you to answer.Subtest CategoriesThe MLT exam covers a variety of Medical Laboratory Science subtest content areas, including Urinalysis and Other Body Fluids, Blood Banking, Chemistry, Hematology, Immunology, Microbiology and Laboratory Operations.Blood Bank (15 to 20%) - Covers blood group systems, antibody identification and screening, DAT, crossmatching, elution/adsorption, blood donation, transfusion therapy and reactions, HDPN, phenotyping/genotyping, antibody titer and pre-warming technique.Urinalysis and Other Body Fluids (5 to 10%) - Assesses chemical, physical and microscopic urinalysis and body fluid analysis.Check Out Mometrix's MLT FlashcardsChemistry (20 to 25%) - Covers acid base, electrolytes, carbohydrates, proteins and other nitrogen-containing compounds, enzymes, lipids and lipoproteins, tumor parkers, endocrinology, toxicology and TDM.Hematology (20 to 25%) - Assesses knowledge on leukocytes, erythrocytes, reticulocyte counts, RBC/WBC, ESR, morphology and differentials, hemostasis and platelets.Immunology (5 to 10%) - Covers immune responses, immune system immunology, autoimmunity, and immunology of microbial and viral diseases.Microbiology (15 to 20%) - Includes a review of topics such as general microbiology, aerobic gram-positive cocci, gram-negative cocci, gram-positive bacilli, fungus, anaerobes, mycobacteria, viruses and parasites.Laboratory Operations (5 to 10%) - Review knowledge of quality assessment and troubleshooting processes, laboratory mathematics, lab information systems, instrumentation and safety protocols.Calculating Your Passing ScoreAs soon as you complete your MLT exam, you'll get immediate notification of your score and whether or not you passed. If you pass, you'll receive an official certificate and card by mail within two weeks. As a special note, keep in mind that even if you receive a passing score, you won't be officially certified until you physically receive your official documents in the mail from AMT.MLT Study GuideMometrix Academy is a completely free MLT certification resource provided by Mometrix Test Preparation. If you find benefit from our efforts here, check out our premium quality MLT study guide to take your studying to the next level. Just click the MLT study guide link below. Your purchase also helps us make even more great, free content for test-takers. Upgrade your studying with our MLT study guide and flashcards: MLT Study Guide MLT FlashcardsOur customers love the tutorial videos from Mometrix Academy that we have incorporated into our MLT study guide. The MLT study guide reviews below are examples of customer experiences.This book is not a shortcut to make up for a lack of knowledge or a copy of the actual test, it is a well-written book that is extremely helpful when preparing for the MLT test. It gives a good idea of what to expect and when you remove guesswork it is extremely helpful.MLT Study Guide - StevenI like the practice questions with all the explanations. The tips about taking the exam are very useful as well, this way I feel more confident about what to expect the day of taking the exam.MLT Study Guide - AlbaWhat I have read of the book has been really good. There is so much information that you learn In school it is hard to prioritize which is the most important.MLT Study Guide - KariThis exam review must be included in your preparation for the state exam. It covers very thoroughly all areas of the test.MLT Study Guide - CustomerI am very happy with this Study Guide. The guide was to the point, telling you the information that you need to know. This study guide is good to use as an overview of the things that you do know, as well as, a good base of information for the things that you don't know.MLT Study Guide - Sabrinal have been very impressed with the in-depth, yet shortness of truly what I need to know for my examination. I like how it's not too much on one page. So many study items that I have purchased have so much crammed with very lengthy sentences whereas this is as simple as it comes. Thank you for an awesome study tool.MLT Study Guide - KaylaThe book seems to cover all the family theorists and contains really good information. I feel more comfortable having this book.MLT Study Guide - BellaThis book is great! It breaks down subjects that I was struggling on. My friend recommended the book and she passed her boards!MLT Study Guide - AntonioThis study guide has been very helpful especially because it is concise and to the point rather than having a massive study guide that I have to spend hours sifting thoroughly to extract the key points.MLT Study Guide - MaeMometrix Academy - Home by Mometrix Test Preparation | Last Updated: June 16, 2021 100 Questions | Total Attempts: 68081 Beer's law states that the darker the color produced, the more light absorbed in the specimen; the more light absorbed, the lower the concentration of the analyte Higher the concentration of the analyte Longer the wavelength required What is the normality of a solution of sodium hydroxide (molecular weight=40) containing 20 grams in 100 mL of solution? Carbohydrates are organic compounds of 1. carbon 2. hydrogen 33. oxygen If test results are within +/-2 standard deviations, the ratio of test results beyond the +/-2 SD limit will be 1 out of To make a 1:5 dilution of serum sample, dilute 1.0 mL of serum + 5.0 mL of diluent 1.0 mL of serum + 4.0 mL of diluent 1.0 mL of serum + 6.0 mL of diluent 5.0 mL of serum + 1.0 mL of diluent Which one of the following is a function of gamma globulin? Regulates body temperature Performs as fibrinogen for blood coagulation Provides humoral immunity Which instruments do NOT measure concentrations of a particular molecule but of the total ions and molecules in general (number of moles per kilogram of water)? Osmolality of a solution is determined by measuring Freezing point depression Most methods for the determination of blood creatinine are based on the reaction of creatinine and All of the following influence glomerular filtration EXCEPT Decreased renal blood flow and cardiac failure Cardiac failure and renal or urinary calculi Renal or urinary calculi and decreased renal blood flow Hyperglycemia and renal tubule malfunction Unconjugated bilirubin is also known as Alkaline phosphatase is GREATLY elevated in The ketone bodies include acetoacetic acid, acetone, and Blood glucose levels are directly regulated by the hormone Albumin, alpha1, alpha2, beta, and gamma globulin are electrophoretic fractions of Which one of the following methods could be used to study protein abnormality? Isoenzyme electrophoresis Electrophoresis of penicilliamine-treated serum Which of the following enzymes are present in heart muscle? 1. lactic dehydrogenase (LDH) (LD) 2. creatinine phosphokinase (CPK) (CK) 3. serum glutamic oxaloacetic transaminase (SGOT) Most of the plasma thyroxine (T4) is Sodium is responsible for the maintenance of Osmotic pressure of body fluids Cardiac muscle contractions When using a buffer with a pH of 8.6, each of the serum proteins in an electrical field migrates toward The end-product of purine metabolism is When six or more consecutive daily values are distributed on one side of the mean but maintain a constant level, it is known as a Normal distribution curve The degree that a procedure deviates from a known value or from a calculated mean value is known as Which one of the following hemoglobin determination methods is recommended by the International Committee for Clinical Laboratory Standards and the National Committee for Clinical Laboratory Standards? When using white blood cell pipets for performing a white cell count, blood is diluted

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