

AAMI SCIENCE PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. What is the appropriate method for cleaning up a formaldehyde spill according to safety regulations?**
 - A. Add ammonia and wipe up
 - B. Use water to dilute
 - C. Neutralize with vinegar
 - D. Cover with sand
- 2. What does hypostasis refer to in medical terminology?**
 - A. Dehydration of tissues
 - B. Intravascular blood discoloration
 - C. Inflammation of blood vessels
 - D. Increased blood pressure
- 3. Which type of embalming solution is used to remove excess moisture?**
 - A. Hypotonic
 - B. Isotonic
 - C. Hypertonic
 - D. Hypotonic/Humectants
- 4. What is the primary movement of solutes in the process of dialysis?**
 - A. From high solute concentration to low solute concentration
 - B. From low solute concentration to high solute concentration
 - C. Across a semipermeable membrane
 - D. Through the capillary walls
- 5. What condition results from hypersecretion of glucocorticoid hormones?**
 - A. Cushing's Disease
 - B. Addison's Disease
 - C. Hyperaldosteronism
 - D. Pheochromocytoma
- 6. Which of the following best describes the function of the uterus?**
 - A. To carry the mature egg to the fallopian tube
 - B. To serve as the site of fertilization
 - C. To support the developing fetus
 - D. To produce ova

- 7. What is the role of antibodies in the immune response?**
- A. To transport oxygen
 - B. To fight off pathogens
 - C. To provide energy
 - D. To enhance cell division
- 8. What type of acid is sodium oxalate categorized under?**
- A. Buffering agent
 - B. Anticoagulant
 - C. Surfactant
 - D. Reodorant
- 9. Which of the following processes assists in limiting swelling during embalming?**
- A. Glycerin application
 - B. Internal tissue building
 - C. Pressure filtration
 - D. Suture incisions
- 10. After embalming, what process is often performed to reduce swelling?**
- A. Excise mutilated tissue
 - B. Deep wound prep and filling
 - C. Hypo
 - D. Feature molding

Answers

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1. A
2. B
3. C
4. A
5. A
6. C
7. B
8. A
9. C
10. B

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Explanations

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1. What is the appropriate method for cleaning up a formaldehyde spill according to safety regulations?

- A. Add ammonia and wipe up**
- B. Use water to dilute
- C. Neutralize with vinegar
- D. Cover with sand

The appropriate method for cleaning up a formaldehyde spill involves using a chemical that can mitigate the hazards of formaldehyde, which is a toxic and potentially carcinogenic substance. Adding ammonia is a method that can help neutralize formaldehyde, as it forms a reaction that reduces the formaldehyde's harmful effects. This aligns with safety regulations designed to minimize exposure to hazardous materials. It's important to note that simply using water to dilute does not effectively neutralize or eliminate the risks posed by formaldehyde, as it can still vaporize and pose health risks. Neutralizing with vinegar is not recommended either, since vinegar (acetic acid) does not effectively interact with formaldehyde in a way that safely neutralizes it. Covering a spill with sand might contain the spill temporarily but does not address the toxic nature of formaldehyde, nor does it neutralize the chemical itself. Therefore, using ammonia provides a more reliable and effective method for ensuring safety during a formaldehyde spill.

2. What does hypostasis refer to in medical terminology?

- A. Dehydration of tissues
- B. Intravascular blood discoloration**
- C. Inflammation of blood vessels
- D. Increased blood pressure

Hypostasis, in medical terminology, specifically refers to the condition characterized by intravascular blood discoloration. This occurs when blood settles in the lower parts of the body or a specific area due to gravity, particularly in cases of postmortem changes or prolonged immobility. The pooling of blood causes a dark discoloration in the tissue that can be observed visually, providing important clues in medical assessments, particularly in forensic medicine. This phenomenon is significant because it reflects the dynamic nature of blood circulation and how it can be affected by various factors, including posture and vascular health. Understanding hypostasis is essential for medical professionals to differentiate between living and postmortem states and to comprehend conditions related to blood flow and vascular health.

3. Which type of embalming solution is used to remove excess moisture?

- A. Hypotonic
- B. Isotonic
- C. Hypertonic**
- D. Hypotonic/Humectants

The use of a hypertonic embalming solution is instrumental in removing excess moisture from the body's tissues. Hypertonic solutions contain a higher concentration of solutes compared to the body's cells. When these solutions are introduced into the tissues, they create an osmotic gradient that draws moisture out of the cells and interstitial spaces. This process effectively reduces moisture retention, which is critical during the embalming process to ensure proper preservation and to prevent potential decomposition. In contrast, hypotonic solutions would result in the movement of water into the cells, potentially leading to cell swelling and rupture, which is counterproductive in embalming. Isotonic solutions maintain the balance of solute concentrations inside and outside the cells, thus not facilitating moisture removal. Hypotonic/humectants typically refer to solutions designed to retain moisture rather than to draw it out, making them unsuitable for the goal of excess moisture removal. Therefore, the correct choice reflects the function of hypertonic solutions in the context of embalming practice.

4. What is the primary movement of solutes in the process of dialysis?

- A. From high solute concentration to low solute concentration**
- B. From low solute concentration to high solute concentration
- C. Across a semipermeable membrane
- D. Through the capillary walls

The primary movement of solutes in the process of dialysis is from an area of high solute concentration to an area of low solute concentration. This process is driven by diffusion, where molecules move spontaneously from regions of higher concentration to areas of lower concentration until equilibrium is achieved. In dialysis, this principle is utilized to remove waste products and excess solutes from the blood when the kidneys are unable to perform this function effectively. The movement across a semipermeable membrane is also an important characteristic of dialysis, as it allows for selective transfer of solutes while retaining larger molecules, such as proteins, in the bloodstream. This natural tendency for solutes to balance concentrations on either side of the membrane explains why solutes will migrate from high to low concentration during this process. The role of capillary walls pertains more to general physiological processes and does not define the specific mechanism driving solute movement in dialysis.

5. What condition results from hypersecretion of glucocorticoid hormones?

- A. Cushing's Disease**
- B. Addison's Disease
- C. Hyperaldosteronism
- D. Pheochromocytoma

The condition resulting from hypersecretion of glucocorticoid hormones is indeed Cushing's Disease. This condition is characterized by an excess production of cortisol, a primary glucocorticoid hormone, which can arise from a variety of sources, including a pituitary adenoma that stimulates the adrenal gland to produce more cortisol. Cortisol plays essential roles in the body, including regulating metabolism, immune response, and stress responses. Excess levels of this hormone can lead to a range of symptoms and complications, such as abnormal fat distribution, high blood pressure, glucose intolerance, and mood changes, among others. In contrast, Addison's Disease is associated with insufficient production of glucocorticoids, leading to symptoms like fatigue, weight loss, and low blood sugar. Hyperaldosteronism primarily affects aldosterone levels, resulting in hypertension and electrolyte imbalances, rather than glucocorticoids. Pheochromocytoma involves excess catecholamine production, which affects adrenaline and noradrenaline levels, not glucocorticoids. Understanding the specific effects of glucocorticoids and their dysregulation is crucial in recognizing the significance of Cushing's Disease in clinical practice.

6. Which of the following best describes the function of the uterus?

- A. To carry the mature egg to the fallopian tube
- B. To serve as the site of fertilization
- C. To support the developing fetus**
- D. To produce ova

The function of the uterus is primarily to support the developing fetus during pregnancy. After fertilization occurs, the fertilized egg implants into the lining of the uterus, where it receives nourishment and develops throughout the gestation period. The uterus provides a protective environment, allowing for the growth and development of the fetus until it is ready for birth. Other functions related to the reproductive system, such as carrying the mature egg or producing ova, are not the primary roles of the uterus itself. The fallopian tubes are responsible for transporting the egg, while the ovaries produce ova. Fertilization typically occurs in the fallopian tubes rather than in the uterus. Thus, the most accurate statement about the primary role of the uterus in the reproductive process is that it supports the developing fetus.

7. What is the role of antibodies in the immune response?

- A. To transport oxygen
- B. To fight off pathogens**
- C. To provide energy
- D. To enhance cell division

Antibodies play a crucial role in the immune response as they are specialized proteins produced by B cells in response to the presence of foreign substances known as antigens, which can be found on pathogens such as bacteria and viruses. When an antibody binds to an antigen, it can neutralize the pathogen directly or tag it for destruction by other immune cells, effectively helping to eliminate infections from the body. This action is a key component of the adaptive immune response, which is tailored to recognize and respond to specific invaders. The focus on antibodies underscores their pivotal role in the body's defense mechanisms, while other functions mentioned in the other choices do not pertain to the immune function. For instance, transporting oxygen is primarily the job of hemoglobin in red blood cells, which is unrelated to immune responses. The provision of energy is a function associated with metabolic processes and nutrition rather than immune responses. Enhancing cell division relates to growth and development processes rather than directly combating pathogens. Thus, the option regarding fighting off pathogens accurately captures the essence of antibodies' role within the immune system.

8. What type of acid is sodium oxalate categorized under?

- A. Buffering agent**
- B. Anticoagulant
- C. Surfactant
- D. Reodorant

Sodium oxalate is categorized as a buffering agent because it helps maintain a stable pH in solutions. Buffers function by neutralizing acids and bases, minimizing fluctuations in pH levels, which is especially important in biological and chemical systems. In the context of laboratory settings, sodium oxalate can be used in blood collection tubes to prevent coagulation by maintaining the pH required for accurate analysis of blood samples. While sodium oxalate does have anticoagulant properties, it is primarily recognized for its role in buffering, which is why it falls under that category in this context. The other categories, such as surfactant or reodorant, do not apply to sodium oxalate as it does not serve those functions.

9. Which of the following processes assists in limiting swelling during embalming?

- A. Glycerin application
- B. Internal tissue building
- C. Pressure filtration**
- D. Suture incisions

The process that assists in limiting swelling during embalming is pressure filtration. This technique involves the application of pressure to the embalming fluid as it is injected into the body. The pressure helps to drive the fluid into the tissue spaces and can also help to push excess interstitial fluids out, which are often responsible for swelling. By promoting the movement of fluid within the tissues, pressure filtration effectively assists in reducing and controlling edema during the embalming process. Other methods, such as glycerin application, internal tissue building, and suture incisions, serve different purposes in the embalming process. Glycerin, for example, is typically used as a humectant to assist in moisture retention and can actually promote the retention of fluids rather than limit swelling. Internal tissue building involves injecting substances to restore tissue volume or shape but does not inherently address fluid accumulation. Suture incisions may be employed to improve drainage or modify the cosmetic appearance but they do not directly affect the process of fluid handling during embalming as pressure filtration does.

10. After embalming, what process is often performed to reduce swelling?

- A. Excise mutilated tissue
- B. Deep wound prep and filling**
- C. Hypo
- D. Feature molding

The correct choice focuses on a technique known as deep wound prep and filling, which is used to address swelling after embalming. This process is important in the preparation of the body for viewing and burial. When embalming fluids are introduced into the body, there can be a tendency for tissues to swell due to fluid accumulation, especially in areas where there might have been previous trauma or injury. Deep wound prep involves the careful preparation of these swollen areas, which may include the aspiration of excess fluid and the introduction of filling materials to help restore the body's natural form and reduce any unsightly bulges. This not only improves the overall appearance of the body but also aids in achieving a more lifelike and respectful presentation for memorial services. Additionally, this method demonstrates an understanding of the specific needs of the body's tissues, helping to maintain their integrity while also enhancing the aesthetic outcome of the embalming process.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

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We wish you the very best on your exam journey. You've got this!

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