

AAMC FL Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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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

- 1. What is the total work generated by a healthy adult circulating 9 L of blood in 10 minutes?**
 - A. 60 kJ**
 - B. 120 kJ**
 - C. 180 kJ**
 - D. 240 kJ**
- 2. What characteristic do enzymes often have related to their substrates?**
 - A. They always contain the substrate in their name**
 - B. They can function without substrates**
 - C. They are not specific to particular substrates**
 - D. They act equally on all types of substrates**
- 3. What does the looking-glass self concept refer to?**
 - A. Your perspective on societal norms**
 - B. Your self-image based on others' perceptions**
 - C. Your subjective feelings about yourself**
 - D. Your understanding of personal identity**
- 4. Which substance is commonly recognized as a stimulant?**
 - A. Alcohol**
 - B. Nicotine**
 - C. Opiates**
 - D. Barbiturates**
- 5. What is the primary function of trypsin in digestion?**
 - A. Degrades carbohydrates**
 - B. Degrades nucleic acids**
 - C. Degrades proteins**
 - D. Degrades lipids**

- 6. Which process generates the most ATP during cellular respiration?**
- A. Glycolysis**
 - B. Krebs cycle**
 - C. Electron transport chain**
 - D. Pyruvate dehydrogenase reaction**
- 7. What structural difference exists between ATP and AMP?**
- A. ATP has two phosphates, AMP has one**
 - B. ATP has three phosphates, AMP has one**
 - C. ATP has one phosphate, AMP has three**
 - D. ATP has four phosphates, AMP has two**
- 8. What occurs during assimilation?**
- A. Acceptance of multiple cultural identities**
 - B. Absorption of one cultural group into another**
 - C. Reinforcement of cultural heritage**
 - D. Preservation of cultural uniqueness**
- 9. Which cells are crucial for activating macrophages and other immune cells?**
- A. Cytotoxic T cells**
 - B. B cells**
 - C. Helper T cells**
 - D. Natural killer cells**
- 10. What is meant by stratification in a social context?**
- A. The equal distribution of resources among all groups**
 - B. A structured ranking that perpetuates economic inequality**
 - C. The process of social mobility within a society**
 - D. The mechanism for integrating diverse cultural groups**

Answers

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

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Explanations

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1. What is the total work generated by a healthy adult circulating 9 L of blood in 10 minutes?

- A. 60 kJ
- B. 120 kJ**
- C. 180 kJ
- D. 240 kJ

To determine the total work generated by a healthy adult circulating 9 L of blood in 10 minutes, it's essential to consider the relationship between blood flow, pressure, and work. The work done by the heart can be calculated using the formula: $\text{Work} = \text{Volume} \times \text{Pressure}$. In this case, we know the volume of blood being circulated is 9 liters. To convert this volume into a more standard unit for work calculations, we convert liters to milliliters ($1 \text{ L} = 1000 \text{ mL}$), resulting in 9000 mL. For the pressure, a typical value for mean arterial pressure in a healthy adult is around 80 mmHg, which can be converted into pascals ($1 \text{ mmHg} = 133.32 \text{ Pa}$), yielding: $80 \text{ mmHg} \times 133.32 \text{ Pa/mmHg} = \text{approximately } 10665.6 \text{ Pa}$. Now, we calculate the work done in joules using these figures: $\text{Work} = 9000 \text{ mL} \times 10665.6 \text{ Pa}$ (since $1 \text{ mL} = 1 \times 10^{-6} \text{ m}^3$, we include this conversion into our calculations). This leads to a total energy expenditure that can be converted into kilojoules. In this context, the

2. What characteristic do enzymes often have related to their substrates?

- A. They always contain the substrate in their name**
- B. They can function without substrates
- C. They are not specific to particular substrates
- D. They act equally on all types of substrates

Enzymes have a distinct characteristic often related to their substrates in that many enzymes indeed include the substrate in their name, which gives insight into their function. This naming convention helps to convey information about the enzyme's specificity and the reaction it catalyzes. For example, the enzyme lactase breaks down lactose, and the name reflects the substrate it acts upon. This specificity is crucial because each enzyme is designed to facilitate a specific chemical reaction involving its particular substrate, highlighting the relationship and promoting understanding of the enzyme's function. Substrates are the reactants that enzymes act upon, and this specificity is a key factor in biochemical reactions, ensuring that the right reactions occur in cellular processes. While some enzymes may have more general names, the trend in naming provides clarity regarding the reaction and the substrate involved. Other options suggest characteristics that misrepresent enzyme behavior. For example, enzymes cannot function without substrates, as substrates are necessary for their catalytic action. Likewise, enzymes exhibit high specificity and do not act on all types of substrates indiscriminately. Therefore, understanding the relationship between enzymes and their substrates is vital in biochemistry and helps clarify their role in metabolic processes.

3. What does the looking-glass self concept refer to?

- A. Your perspective on societal norms
- B. Your self-image based on others' perceptions**
- C. Your subjective feelings about yourself
- D. Your understanding of personal identity

The looking-glass self concept refers to the idea that an individual's self-image and self-esteem are shaped significantly by how they believe others perceive them. Coined by sociologist Charles Horton Cooley, this concept highlights a social process where people react to the opinions and judgments of others in their social environment. It involves three key components: imagining how you appear to others, imagining their judgment of that appearance, and developing feelings about yourself based on those perceptions. Therefore, self-image is not solely about an internal or individual perspective but is influenced by the reflections of others' views, making this answer the most accurate representation of the looking-glass self concept. This also distinguishes it from the other options, which focus more broadly on societal norms, subjective feelings, or personal identity without capturing the essence of how social interactions shape one's self-view.

4. Which substance is commonly recognized as a stimulant?

- A. Alcohol
- B. Nicotine**
- C. Opiates
- D. Barbiturates

Nicotine is widely recognized as a stimulant because it activates the central nervous system, leading to increased alertness, attention, and energy levels. It works by stimulating the release of neurotransmitters, particularly dopamine, which enhances mood and focus. This is in stark contrast to substances such as alcohol, which is a depressant that slows down brain function and impairs cognitive processes. Opiates, on the other hand, are primarily analgesics and sedatives, providing pain relief while also inducing relaxation and drowsiness. Barbiturates are also classified as depressants, used to induce sleep and calm the nervous system. Thus, among the substances listed, nicotine's primary effects align with those of stimulants, making it the correct answer.

5. What is the primary function of trypsin in digestion?

- A. Degrades carbohydrates
- B. Degrades nucleic acids
- C. Degrades proteins**
- D. Degrades lipids

The primary function of trypsin in digestion is to degrade proteins. Trypsin is a serine protease enzyme that is produced in the pancreas and secreted into the small intestine, where it plays a crucial role in protein digestion. It specifically breaks down peptide bonds in the protein chain, resulting in smaller peptides and amino acids that can be easily absorbed by the intestinal lining. By cleaving proteins into smaller, more manageable pieces, trypsin facilitates the overall process of protein digestion, enabling the body to utilize the amino acids derived from these proteins for various physiological needs, such as building tissues and synthesizing enzymes and hormones.

6. Which process generates the most ATP during cellular respiration?

- A. Glycolysis**
- B. Krebs cycle**
- C. Electron transport chain**
- D. Pyruvate dehydrogenase reaction**

The process that generates the most ATP during cellular respiration is the electron transport chain. This stage occurs in the inner mitochondrial membrane and is primarily responsible for the bulk of ATP production. It utilizes the reduced coenzymes NADH and FADH₂, which were generated during earlier stages of respiration, including glycolysis and the Krebs cycle. As electrons are transferred through a series of protein complexes in the electron transport chain, protons are pumped from the mitochondrial matrix into the intermembrane space, creating a proton gradient. This electrochemical gradient stores potential energy. The enzyme ATP synthase then harnesses this energy as protons flow back into the matrix, catalyzing the conversion of ADP and inorganic phosphate into ATP. This method of ATP production is known as oxidative phosphorylation and is significantly more efficient than the ATP yield from glycolysis or the Krebs cycle, leading to the generation of approximately 26 to 28 ATP molecules from the complete oxidation of one glucose molecule. In contrast, glycolysis contributes a net gain of 2 ATP molecules, while the Krebs cycle directly produces 2 ATP molecules (or GTP) per glucose through substrate-level phosphorylation, and the pyruvate dehydrogenase reaction itself does not generate ATP but rather produces

7. What structural difference exists between ATP and AMP?

- A. ATP has two phosphates, AMP has one**
- B. ATP has three phosphates, AMP has one**
- C. ATP has one phosphate, AMP has three**
- D. ATP has four phosphates, AMP has two**

ATP, or adenosine triphosphate, consists of an adenosine molecule bonded to three phosphate groups. The key difference between ATP and AMP, or adenosine monophosphate, lies in the number of phosphate groups attached to the adenosine. While AMP only contains one phosphate group, ATP has three. This difference in phosphate groups is significant because it impacts the energy storage and transfer capabilities of these molecules. ATP serves as a primary energy currency in cells, supplying the energy needed for various biochemical reactions, while AMP is often involved in signaling pathways as well as energy regulation when ATP levels drop. Understanding these distinctions is essential for grasping cellular metabolism and energy transfer mechanisms within biological systems.

8. What occurs during assimilation?

- A. Acceptance of multiple cultural identities
- B. Absorption of one cultural group into another**
- C. Reinforcement of cultural heritage
- D. Preservation of cultural uniqueness

Assimilation occurs when individuals or groups from one culture adopt the customs, values, and behaviors of another culture, effectively leading to the absorption of one cultural group into another. This process often involves the loss of the original cultural identity as the assimilated group adopts the dominant culture's characteristics, which can result in significant changes in language, traditions, and social norms. Understanding assimilation in this way differentiates it from options that highlight the coexistence or enhancement of multiple cultural identities, such as acceptance of multiple cultural identities or reinforcement of cultural heritage. These concepts are more aligned with multiculturalism or cultural preservation, where distinct identities are celebrated and maintained rather than overshadowed or merged into a predominant culture.

9. Which cells are crucial for activating macrophages and other immune cells?

- A. Cytotoxic T cells
- B. B cells
- C. Helper T cells**
- D. Natural killer cells

Helper T cells play a vital role in the activation of macrophages and other immune cells. They are instrumental in coordinating the immune response by releasing cytokines that stimulate various immune cells. When activated, helper T cells can enhance the activity of macrophages, making them more effective at phagocytosis and killing pathogens. They also help activate B cells to produce antibodies and can influence the activity of cytotoxic T cells. The other cell types listed have different roles in the immune response. Cytotoxic T cells are primarily responsible for directly killing infected or cancerous cells, not directly activating macrophages. B cells are mainly involved in antibody production and humoral immunity rather than the activation of macrophages. Natural killer cells play a role in the innate immune response and target virally infected cells or tumors, but they do not activate other immune cells like macrophages to the same extent as helper T cells do.

10. What is meant by stratification in a social context?

- A. The equal distribution of resources among all groups**
- B. A structured ranking that perpetuates economic inequality**
- C. The process of social mobility within a society**
- D. The mechanism for integrating diverse cultural groups**

Stratification in a social context refers to a structured ranking of individuals or groups in a society based on various factors such as wealth, income, education, and social status. It highlights how resources, opportunities, and privileges are distributed unevenly among different layers or strata of society. This ranking system often perpetuates economic inequality, as higher strata have better access to resources and opportunities, while lower strata may experience limitations and disadvantages. The focus on how these rankings maintain and reinforce socioeconomic divides is critical to understanding the implications of social stratification. It emphasizes the systemic nature of inequality, ensuring that certain groups consistently hold power and resources over others, shaping access to education, employment, and healthcare. In contrast, equal distribution of resources would imply a lack of stratification, as everyone would receive the same share, thus not creating any hierarchical structure. The concept of social mobility involves the movement of individuals or groups within that social hierarchy, rather than the hierarchy itself. Likewise, integrating diverse cultural groups is more aligned with multiculturalism and social cohesion than with the specific framework of stratification, which is centered on entrenched inequality rather than cultural diversity.

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:

<https://aamcfl.examzify.com>

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