

National League for Nursing (NLN PAX) Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	6
Answers	9
Explanations	11
Next Steps	17

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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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!

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Questions

- 1. How is energy transferred in cellular processes?**
 - A. Through glucose**
 - B. Through ATP**
 - C. Through water**
 - D. Through proteins**

- 2. The Pap test can detect cancer in which part of the female reproductive tract?**
 - A. The vagina**
 - B. The fallopian tubes**
 - C. The uterus**
 - D. The cervix**

- 3. When a drop of dilute nitric acid is added to water surrounding a hydra, what is the action of the acid?**
 - A. A hormone**
 - B. An impulse**
 - C. A stimulus**
 - D. A response**

- 4. The enzymes found in the stomach and small intestine that hydrolyze fats are called**
 - A. amylases**
 - B. peptidases**
 - C. proteases**
 - D. lipases**

- 5. What is the primary function of a converging lens?**
 - A. To spread light rays out**
 - B. To focus light rays to a single point**
 - C. To reflect light rays**
 - D. To filter specific wavelengths**

- 6. What characterizes an organism classified as a nonmetal?**
- A. Low melting points**
 - B. High electrical conductivity**
 - C. High melting and boiling points**
 - D. Excellent thermal conductors**
- 7. What are the horizontal columns on the periodic chart known as?**
- A. Periods**
 - B. Ions**
 - C. Metalloids**
 - D. Groups**
- 8. The term aloof is best described as:**
- A. Distant**
 - B. Alone**
 - C. Harsh**
 - D. Familiar**
- 9. Which type of respiration occurs when there is insufficient oxygen in muscle tissue?**
- A. Aerobic respiration.**
 - B. Anaerobic respiration.**
 - C. Lactic acid fermentation.**
 - D. Oxidative phosphorylation.**
- 10. What is the result of meiotic division in terms of chromosome number?**
- A. Cells with double the chromosome number**
 - B. Cells with the usual number of chromosomes**
 - C. Cells with half the usual number of chromosomes**
 - D. Cells with varying chromosome numbers**

Answers

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

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Explanations

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1. How is energy transferred in cellular processes?

- A. Through glucose
- B. Through ATP**
- C. Through water
- D. Through proteins

Energy transfer in cellular processes primarily occurs through ATP, or adenosine triphosphate. ATP is often referred to as the "energy currency" of the cell because it captures and transfers chemical energy within cells. When cellular processes require energy for activities such as muscle contraction, active transport across membranes, or biochemical reactions, ATP donates a phosphate group to other molecules in a process known as phosphorylation. This transfer of the phosphate group releases energy, which can then be harnessed for various cellular functions. While glucose is an important energy source, it is ultimately broken down during cellular respiration to produce ATP, rather than serving as a direct means of energy transfer in cellular processes. Water plays critical roles in cellular metabolism, such as participating in chemical reactions, but it does not function as a direct energy carrier. Proteins are essential in many processes, including catalysis and transport, but they do not serve primarily to transfer energy in the same way that ATP does.

2. The Pap test can detect cancer in which part of the female reproductive tract?

- A. The vagina
- B. The fallopian tubes
- C. The uterus
- D. The cervix**

The Pap test, also known as a Pap smear, is specifically designed to detect abnormal cells in the cervix, which is the lower part of the uterus that connects to the vagina. This screening procedure is crucial for identifying precancerous changes and early cervical cancer, allowing for timely intervention and treatment. While the Pap test may provide some insights related to changes in the vaginal area, its primary focus is on the cervical cells. The fallopian tubes and the uterus are not directly assessed through this test; therefore, the Pap test does not effectively screen for issues in those areas. Detecting cell changes in the cervix is vital for preventing cervical cancer, making it an essential part of routine gynecological healthcare for women.

3. When a drop of dilute nitric acid is added to water surrounding a hydra, what is the action of the acid?

- A. A hormone**
- B. An impulse**
- C. A stimulus**
- D. A response**

The addition of dilute nitric acid to the water surrounding a hydra serves as a stimulus. In biological terms, a stimulus refers to any change in an organism's environment that can provoke a response. In this case, the diluting effect of nitric acid alters the chemical environment of the water, which can trigger a reaction from the hydra. This change can lead to various physiological responses, such as movement or retraction as the organism reacts to the introduced stimulus. Understanding the nature of how organisms interact with their environment is essential in biology. Stimuli such as chemicals, light, or temperature changes can provoke various responses from living creatures based on their biological mechanisms. While the other options relate to different concepts—like a response being the actual action taken by the organism after sensing the stimulus—recognizing the role of the acid as a stimulus is key in understanding the initial trigger for the hydra's reaction.

4. The enzymes found in the stomach and small intestine that hydrolyze fats are called

- A. amylases**
- B. peptidases**
- C. proteases**
- D. lipases**

The correct answer is lipases, as these enzymes are specifically responsible for the hydrolysis of fats. Lipases function by breaking down triglycerides and other lipids into fatty acids and glycerol, which can then be absorbed by the body. This process occurs primarily in the stomach and small intestine, where dietary fats are present. Amylases are enzymes that catalyze the breakdown of carbohydrates, specifically starches into sugars, and are not involved in fat digestion. Peptidases and proteases are enzymes that focus on the breakdown of proteins into amino acids. Therefore, they do not hydrolyze fats and are not related to lipid digestion. Understanding the specific functions of these enzymes clarifies why lipases are the correct choice for the hydrolysis of fats.

5. What is the primary function of a converging lens?

- A. To spread light rays out
- B. To focus light rays to a single point**
- C. To reflect light rays
- D. To filter specific wavelengths

The primary function of a converging lens is to focus light rays to a single point. This occurs because a converging lens, which is typically convex in shape, causes parallel light rays that pass through it to bend inward and converge at a focal point. This property allows converging lenses to magnify images and is widely utilized in various optical devices, such as cameras, microscopes, and the human eye. When light rays from a distant object enter the lens, they converge after passing through, creating a real image at the focal point on the opposite side of the lens. The ability of a converging lens to manipulate light is integral to the design of optical instruments, making the understanding of this mechanism essential for fields that rely on optics. In contrast, the other choices refer to different optical behaviors. For example, spreading light rays is characteristic of a diverging lens, which has the opposite effect, causing light rays to spread apart rather than focus. Reflecting light rays is a function associated with mirrors, not lenses. Filtering specific wavelengths involves the selective transmission of light, typically performed by optical filters and not directly related to the focusing characteristic of converging lenses.

6. What characterizes an organism classified as a nonmetal?

- A. Low melting points**
- B. High electrical conductivity
- C. High melting and boiling points
- D. Excellent thermal conductors

An organism classified as a nonmetal is characterized by low melting points. Nonmetals typically have much lower melting and boiling points compared to metals and metalloids. This lower thermal stability is a defining feature of nonmetals, which can exist in various states at room temperature, including gases (like oxygen and nitrogen), liquids (such as bromine), and solids (like sulfur and phosphorus). In contrast, high electrical conductivity is associated with metals rather than nonmetals, as nonmetals usually act as insulators. High melting and boiling points and excellent thermal conductivity are also properties characteristic of metals; nonmetals generally do not exhibit these traits. Therefore, low melting points represent a fundamental property that distinguishes nonmetals, making it the correct choice.

7. What are the horizontal columns on the periodic chart known as?

- A. Periods**
- B. Ions**
- C. Metalloids**
- D. Groups**

The horizontal columns on the periodic chart are known as groups. This term refers to the vertical arrangements on the periodic table, which indicate elements that share similar chemical properties and behaviors due to their corresponding number of valence electrons. Elements within the same group typically exhibit comparable reactivity and tend to form similar types of compounds. Certain characteristics of elements, such as metallic or non-metallic properties and their effective electronegativity, can often be predicted based on their group placement. For instance, Group 1 contains the alkali metals, which are highly reactive, while the noble gases in Group 18 are known for their lack of reactivity due to having full electron shells. On the other hand, periods are the horizontal rows on the periodic table that indicate the energy levels of electrons in the atoms of the elements present in that row. Ions refer to charged particles that result from the loss or gain of electrons, and metalloids are a specific category of elements that have properties between metals and non-metals. Thus, these terms do not accurately describe the vertical columns in the periodic table.

8. The term aloof is best described as:

- A. Distant**
- B. Alone**
- C. Harsh**
- D. Familiar**

The term "aloof" is best described as distant. This word conveys a sense of emotional distance or detachment from others. When someone is characterized as aloof, it suggests that they are not engaging with those around them, whether through physical presence or emotional involvement. This detachment can be perceived as a lack of interest or warmth, thereby creating a barrier between the aloof individual and others. In contrast, the other terms do not accurately capture this sense of emotional detachment. "Alone" refers to being without company, which does not inherently imply a lack of warmth or engagement with others. "Harsh" indicates a severity or cruelty in behavior or attitude, which does not relate to the idea of being emotionally distant. "Familiar" suggests a sense of closeness or acquaintance, further highlighting the distinction from the concept of aloofness. Thus, describing someone as aloof effectively communicates their distant behavior and the lack of connection they may have with those around them.

9. Which type of respiration occurs when there is insufficient oxygen in muscle tissue?

- A. Aerobic respiration.**
- B. Anaerobic respiration.**
- C. Lactic acid fermentation.**
- D. Oxidative phosphorylation.**

The correct answer is anaerobic respiration, which occurs when oxygen levels are insufficient for normal aerobic metabolic processes. This type of respiration allows cells, particularly muscle cells during intense exercise or situations where oxygen is scarce, to produce energy without using oxygen. During anaerobic respiration, glucose is partially broken down to yield energy more rapidly than aerobic respiration would allow, but it produces less energy overall. As muscles continue to exert effort without adequate oxygen, they switch to anaerobic metabolism, which results in the production of ATP (adenosine triphosphate) as well as byproducts such as lactic acid. The accumulation of lactic acid can lead to muscle fatigue and discomfort. In contrast, aerobic respiration is the process that requires oxygen to convert glucose into energy while producing carbon dioxide and water as byproducts. This process is more efficient in terms of energy yield but cannot occur when oxygen levels are low. Lactic acid fermentation is a specific type of anaerobic process that occurs in muscle cells, but the broader term, anaerobic respiration, encompasses various pathways, including alcoholic fermentation in yeast. Oxidative phosphorylation is a part of aerobic respiration that occurs in the mitochondria, where ATP is produced in the presence of oxygen. This process cannot take place when oxygen

10. What is the result of meiotic division in terms of chromosome number?

- A. Cells with double the chromosome number**
- B. Cells with the usual number of chromosomes**
- C. Cells with half the usual number of chromosomes**
- D. Cells with varying chromosome numbers**

Meiotic division results in gametes (sperm and egg cells) that have half the usual number of chromosomes found in somatic cells. In humans, for instance, somatic cells contain 46 chromosomes (23 pairs), while meiotic division reduces this number to 23 chromosomes in each gamete. This reduction is essential for sexual reproduction, as it ensures that when gametes unite during fertilization, the resulting zygote will again have the full complement of chromosomes (46 in total). The process of meiosis includes two rounds of division: meiosis I and meiosis II. During meiosis I, homologous chromosomes are separated, leading to a halving of the chromosome number, while meiosis II resembles mitotic division, where sister chromatids are separated, but the overall chromosome count remains reduced compared to the original cell. This halving of chromosome number maintains genetic stability across generations and contributes to genetic diversity through mechanisms like crossing over and independent assortment.

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://nlm-pax.examzify.com>

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