

NANP Board 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

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- 1. Which type of starch is only beginning to receive widespread attention for its clinical implications?**
 - A. Rapidly digestible starch (RDS)**
 - B. Resistant starch (RS)**
 - C. Slowly digestible starch (SDS)**
 - D. Soluble starch (SS)**
- 2. What is the typical omega 3 to omega 6 ratio observed in the U.S.?**
 - A. 1:10 to 1:25**
 - B. 1:1 to 1:5**
 - C. 1:2**
 - D. 1:5 to 1:15**
- 3. Which statement best describes High Fructose Corn Syrup?**
 - A. It is pure fructose**
 - B. It is pure glucose**
 - C. It is a combination of fructose and glucose**
 - D. It is a type of oligosaccharide**
- 4. Considering quotations in a research report requires specific guidelines. Which one is unnecessary?**
 - A. All quotations should provide direct evidence for your argument.**
 - B. Context should be provided for all quotes.**
 - C. Incorporating block quotes only when using quotations from multiple sources.**
 - D. Quotation marks must be used accurately for proper attribution.**
- 5. Which enzyme releases AA from cell membrane phospholipids?**
 - A. Phospholipase A2**
 - B. Lipooxygenase**
 - C. Cytochrome P450**
 - D. Elongase**

6. Which is NOT a symptom of peptic ulcers?

- A. Bloating after meals**
- B. High fiber diet**
- C. Stomach pain**
- D. Vomiting blood**

7. What is High Fructose Corn Syrup (HFCS) primarily made from?

- A. Adding enzymes to cornstarch to convert glucose into fructose**
- B. Converting sucrose into glucose and fructose**
- C. Extracting sugars from sugar beets**
- D. Mixing glucose and lactose**

8. What is the main structural characteristic of sterols?

- A. A ring-like structure that is highly hydrophobic and structurally rigid**
- B. Linear chains of unsaturated fatty acids**
- C. Single-stranded DNA-like structure**
- D. Double-helical structure typical of proteins**

9. What begins the arachidonic acid (AA) cascade?

- A. Release of AA from cell membrane phospholipids through phospholipase A2 activity**
- B. Release of EPA from cell membrane phospholipids**
- C. Production of series 2 prostaglandins**
- D. Inhibition of COX1 and COX2 enzymes**

10. Which process adds a water-soluble substance to the active site on the molecule during detoxification?

- A. Phase I activation**
- B. Phase II conjugation**
- C. Protein synthesis**
- D. SAM production**

Answers

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

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Explanations

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1. Which type of starch is only beginning to receive widespread attention for its clinical implications?

- A. Rapidly digestible starch (RDS)**
- B. Resistant starch (RS)**
- C. Slowly digestible starch (SDS)**
- D. Soluble starch (SS)**

Resistant starch (RS) is indeed the type of starch that has recently begun to garner significant attention for its clinical implications. This variety of starch is not fully digested in the small intestine, which means it acts much like fiber. As a result, it can provide numerous health benefits, including improved insulin sensitivity, enhanced gut health, and potential weight management support. It serves as a substrate for fermentation by beneficial gut bacteria, leading to the production of short-chain fatty acids, which are known to have various positive effects on metabolic health. The emerging research surrounding resistant starch highlights its role in managing conditions such as diabetes and obesity, which is why it is receiving increased scrutiny within the clinical and nutritional fields. This growing interest contrasts with other types of starch, which may be more established or have more limited clinical implications.

2. What is the typical omega 3 to omega 6 ratio observed in the U.S.?

- A. 1:10 to 1:25**
- B. 1:1 to 1:5**
- C. 1:2**
- D. 1:5 to 1:15**

The typical omega-3 to omega-6 ratio observed in the U.S. is indeed aligned with the range of 1:10 to 1:25. This reflects the western dietary patterns, which are often characterized by a high intake of omega-6 fatty acids primarily from processed foods and vegetable oils, while the intake of omega-3 fatty acids, found in fish and flaxseeds, tends to be lower. Research indicates that many Americans consume significantly more omega-6 than omega-3, resulting in an imbalance that can have implications for health, including increased inflammation. The other ranges suggested do not accurately represent the general consumption patterns. The 1:1 to 1:5 ratio indicates a balanced intake of omega-3 and omega-6 that is closer to what is often recommended for optimal health, which is not the case in the U.S. Similarly, a ratio of 1:2 implies a much higher intake of omega-3s relative to omega-6s than what is typically seen in American diets. Lastly, the 1:5 to 1:15 range, while it may represent some diets, still falls short of capturing the predominance of omega-6 consumption in the overall U.S. diet.

3. Which statement best describes High Fructose Corn Syrup?

- A. It is pure fructose
- B. It is pure glucose
- C. It is a combination of fructose and glucose**
- D. It is a type of oligosaccharide

High Fructose Corn Syrup (HFCS) is best described as a combination of fructose and glucose. It is a sweetener made from corn starch that has been processed to convert some of its glucose into fructose. This results in a syrup that typically contains varying proportions of fructose and glucose, commonly around 55% fructose and 45% glucose in the most widely used form. This composition allows HFCS to mimic the sweetness of sugar, making it a popular ingredient in many food and beverage products.

Understanding the chemical structure of HFCS is important because it highlights its impact on nutrition and metabolism in comparison to pure sugars. Pure fructose or pure glucose would lack this balance and therefore does not reflect the true nature of High Fructose Corn Syrup. While oligosaccharides, which are short chains of sugar molecules, do exist, they are structurally different from HFCS, which does not contain these longer chains but rather free monosaccharides. This knowledge is crucial for students to grasp the distinctions between different types of carbohydrates and their implications for health and nutrition.

4. Considering quotations in a research report requires specific guidelines. Which one is unnecessary?

- A. All quotations should provide direct evidence for your argument.
- B. Context should be provided for all quotes.
- C. Incorporating block quotes only when using quotations from multiple sources.**
- D. Quotation marks must be used accurately for proper attribution.

In the context of research reports, every guideline surrounding the inclusion of quotations serves to enhance clarity, credibility, and attribution accuracy. The guideline about using block quotes only when referencing multiple sources is unnecessary because block quotes can be used when quoting longer passages from a single source, not just when multiple sources are involved. This distinction is important as it emphasizes the requirement to use a different formatting style for longer quotations, which is not contingent upon the number of sources being quoted. The other guidelines are essential practices in scholarly writing: providing direct evidence bolsters your argument; context helps to clarify the relevance of each quote; and accurate use of quotation marks is critical for proper attribution and to maintain academic integrity. These practices ensure that quotes effectively support the overall narrative and argument being presented in the research report.

5. Which enzyme releases AA from cell membrane phospholipids?

- A. Phospholipase A2**
- B. Lipooxygenase**
- C. Cytochrome P450**
- D. Elongase**

Phospholipase A2 is the enzyme responsible for releasing AA (arachidonic acid) from cell membrane phospholipids. This enzyme is specifically designed to break down phospholipids, which are found in cell membranes. The other options are not involved in this process and are incorrect. Lipooxygenase is involved in converting AA into inflammatory mediators, not releasing it from cell membranes. Cytochrome P450 plays a role in drug metabolism and detoxification, but not in releasing AA from phospholipids. Elongase is an enzyme involved in fatty acid elongation, not phospholipid breakdown. So, the correct answer is A, phospholipase A2.

6. Which is NOT a symptom of peptic ulcers?

- A. Bloating after meals**
- B. High fiber diet**
- C. Stomach pain**
- D. Vomiting blood**

A high fiber diet is not a symptom of peptic ulcers; rather, it is considered beneficial for digestion and overall gut health. Peptic ulcers typically present with symptoms such as stomach pain, bloating after meals, and in more severe cases, vomiting blood. These symptoms arise because the ulceration affects the stomach lining and can lead to discomfort and complications. A high fiber diet can help manage digestive issues by promoting regular bowel movements and aiding in the healing process, making it distinct from the symptoms that signify the presence of an ulcer. This makes it clear why a high fiber diet, while important for overall health, does not fit into the category of symptoms associated with peptic ulcers.

7. What is High Fructose Corn Syrup (HFCS) primarily made from?

- A. Adding enzymes to cornstarch to convert glucose into fructose**
- B. Converting sucrose into glucose and fructose**
- C. Extracting sugars from sugar beets**
- D. Mixing glucose and lactose**

High Fructose Corn Syrup (HFCS) is primarily made by adding enzymes to cornstarch to convert glucose into fructose. This process involves the initial breakdown of cornstarch into glucose, which is then enzymatically transformed into fructose, resulting in a sweetener that contains varying proportions of fructose and glucose. The enzymatic conversion allows HFCS to achieve high sweetness levels, comparable to that of sucrose, which is why it is a popular sweetening agent in various food products. Regarding the other options, the process of converting sucrose into glucose and fructose is not how HFCS is produced, as HFCS is derived from corn, not sucrose. Extracting sugars from sugar beets is related to the production of traditional sugar, but not to HFCS. Mixing glucose and lactose is unrelated to HFCS production, as lactose is a sugar found in milk and does not factor into the creation of HFCS from cornstarch.

8. What is the main structural characteristic of sterols?

A. A ring-like structure that is highly hydrophobic and structurally rigid

B. Linear chains of unsaturated fatty acids

C. Single-stranded DNA-like structure

D. Double-helical structure typical of proteins

Sterols are a type of lipid with a unique ring-like structure that is highly hydrophobic and structurally rigid. This structure is what gives sterols their characteristic properties and functions, such as regulating membrane fluidity and serving as precursors for hormone synthesis. Linear chains of unsaturated fatty acids (option B) do not possess this unique ring structure and do not have the same functions as sterols. Single-stranded DNA (option C) and double-helical structure typical of proteins (option D) refer to completely different biomolecules and are not considered structural characteristics of sterols. Therefore, the main structural characteristic of sterols is a ring-like structure that is highly hydrophobic and structurally rigid.

9. What begins the arachidonic acid (AA) cascade?

A. Release of AA from cell membrane phospholipids through phospholipase A2 activity

B. Release of EPA from cell membrane phospholipids

C. Production of series 2 prostaglandins

D. Inhibition of COX1 and COX2 enzymes

The correct response identifies the process that initiates the arachidonic acid cascade. The cascade begins with the release of arachidonic acid from cell membrane phospholipids, which is facilitated by the enzyme phospholipase A2. This process is crucial because arachidonic acid serves as a key precursor for the synthesis of various eicosanoids, including prostaglandins, thromboxanes, and leukotrienes. When phospholipase A2 acts on membrane phospholipids, it liberates arachidonic acid, setting off a series of enzymatic reactions that produce these important signaling molecules. Understanding this cascade is essential for grasping how inflammatory responses and various physiological processes are regulated in the body. The other options do not initiate the cascade. The release of EPA is related but pertains to a different pathway involving omega-3 fatty acids, while the production of series 2 prostaglandins happens later in the cascade after the arachidonic acid has been released. The inhibition of COX1 and COX2 enzymes results from the actions on the products formed later in the cascade, rather than starting it.

10. Which process adds a water-soluble substance to the active site on the molecule during detoxification?

- A. Phase I activation**
- B. Phase II conjugation**
- C. Protein synthesis**
- D. SAM production**

The correct answer is Phase II conjugation. This process specifically involves the addition of a water-soluble substance, known as a conjugate, to the active site of a molecule during the detoxification process. Conjugation is a critical mechanism through which the body enhances the solubility of lipophilic (fat-soluble) substances, making them more easily excreted through urine or bile. In Phase II conjugation, various groups such as glucuronic acid, sulfate, and glutathione are added to the compounds produced during Phase I, which could include reactive or toxic metabolites. This modification not only increases the solubility of the compounds but can also help neutralize any potential harmful effects they may have. Understanding Phase I and Phase II reactions is crucial for recognizing how toxins and drugs are processed in the body. Phase I reactions primarily involve oxidation, reduction, and hydrolysis, but they do not significantly reduce the toxicity or increase water solubility on their own. In contrast, the conjugation occurring in Phase II is essential for rendering these substances safe for elimination from the body.

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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://nanppractice.examzify.com>

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

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