

NBCRNA QOTW 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. Which drug should be avoided during pregnancy when administering anesthesia?**
 - A. Midazolam**
 - B. Sevoflurane**
 - C. Lidocaine**
 - D. Etomidate**
- 2. Which preoperative assessment is commonly recommended for elderly patients?**
 - A. Routine blood test only**
 - B. Cardiac risk and pulmonary function tests**
 - C. Only physical examination**
 - D. Psychological evaluation**
- 3. What are the key components of the anesthetic triad?**
 - A. Amnesia, analgesia, and muscle relaxation**
 - B. Pain relief, sedation, and anxiety reduction**
 - C. Stable temperature, fluid balance, and oxygenation**
 - D. Rapid onset, prolonged duration, and complete anesthesia**
- 4. Which of the following anesthetic agents is known to have bronchodilating effects suitable for asthmatic patients?**
 - A. Desflurane**
 - B. Isoflurane**
 - C. Halothane**
 - D. Sevoflurane**
- 5. What is the blood gas partition coefficient for Isoflurane?**
 - A. 0.42**
 - B. 0.65**
 - C. 1.46**
 - D. 2.5**

- 6. What is a concerning sign during a preanesthetic evaluation related to differential diagnosis?**
- A. A history of successful intubation**
 - B. A history of difficult intubation**
 - C. An absence of previous surgeries**
 - D. A normal respiratory rate**
- 7. What is the primary characteristic of an open breathing system?**
- A. Complete rebreathing with low fresh gas flow**
 - B. No reservoir used and no rebreathing**
 - C. A reservoir used with partial rebreathing**
 - D. A reservoir used with no rebreathing**
- 8. Vocal cord paralysis most commonly occurs due to damage of which nerve?**
- A. Glossopharyngeal**
 - B. Hypoglossal**
 - C. Recurrent laryngeal**
 - D. Superior laryngeal**
- 9. What laboratory value is monitored in patients on anticoagulant therapy?**
- A. Blood glucose**
 - B. Prothrombin time**
 - C. Hemoglobin**
 - D. Platelet count**
- 10. Which conditions can lead to elevated T4 levels?**
- A. Hyperthyroidism**
 - B. Primary hypothyroidism**
 - C. Secondary hypothyroidism**
 - D. Pregnancy**

Answers

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

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Explanations

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1. Which drug should be avoided during pregnancy when administering anesthesia?

- A. Midazolam**
- B. Sevoflurane**
- C. Lidocaine**
- D. Etomidate**

Midazolam should be avoided during pregnancy primarily due to its classification as a benzodiazepine, which can potentially cross the placental barrier and affect the developing fetus. Benzodiazepines are associated with various adverse outcomes during pregnancy, such as fetal dependence and withdrawal symptoms post-delivery, as well as potential teratogenic effects, especially when used in the first trimester. In contrast, sevoflurane, while used cautiously, is considered relatively safe for use during labor and may even be used for maintenance of anesthesia in pregnant patients. Lidocaine is often utilized for regional anesthesia and local anesthesia during pregnancy without significant risk. Etomidate is also noted for its minimal cardiovascular effects and is generally regarded as safe for use in pregnant patients, especially in the context of induction of anesthesia. Thus, midazolam's potential risks during pregnancy, including impacts on fetal development and maternal safety, make it the drug that should be avoided when administering anesthesia during this period.

2. Which preoperative assessment is commonly recommended for elderly patients?

- A. Routine blood test only**
- B. Cardiac risk and pulmonary function tests**
- C. Only physical examination**
- D. Psychological evaluation**

In the preoperative assessment of elderly patients, evaluating cardiac risk and pulmonary function is particularly crucial. Elderly individuals often experience increased comorbidities that can complicate surgical outcomes. Assessing cardiac risk helps identify patients with potential cardiovascular issues, such as coronary artery disease or heart failure, which can significantly affect perioperative morbidity and mortality. Additionally, pulmonary function tests are vital because many elderly patients may have underlying respiratory conditions like chronic obstructive pulmonary disease (COPD), which could lead to complications during and after surgery. By thoroughly assessing both cardiac and pulmonary functions, healthcare providers can formulate a more tailored anesthesia plan, optimize the management of any identified conditions, and ultimately improve the safety and effectiveness of the perioperative care provided to elderly patients. The other options, such as routine blood tests, a physical examination alone, or psychological evaluations, do not comprehensively address the specific risks associated with surgery in the elderly population. While those assessments might have their roles, they do not encompass the critical focus on the cardiac and pulmonary health that is paramount for this demographic.

3. What are the key components of the anesthetic triad?

- A. Amnesia, analgesia, and muscle relaxation**
- B. Pain relief, sedation, and anxiety reduction**
- C. Stable temperature, fluid balance, and oxygenation**
- D. Rapid onset, prolonged duration, and complete anesthesia**

The anesthetic triad is a foundational concept in anesthesia that describes the three primary goals during the administration of anesthetics. This triad consists of amnesia, analgesia, and muscle relaxation, which are crucial for providing a safe and effective anesthetic experience for the patient. Amnesia refers to the inability of the patient to recall events that occur during the surgical procedure, which is essential for reducing psychological stress and discomfort associated with invasive procedures. Analgesia involves the alleviation of pain, ensuring that patients do not experience pain during surgery or in the immediate postoperative period. Muscle relaxation is important for allowing adequate surgical access, as it helps to avoid involuntary movements and allows for optimal positioning of the patient, facilitating the surgeon's work. The other options do not encapsulate the triad effectively. Pain relief, sedation, and anxiety reduction can overlap with the triad's components but do not specifically address the key elements of amnesia, analgesia, and muscle relaxation. Stable temperature, fluid balance, and oxygenation are critical components of perioperative care but do not fall under the umbrella of the anesthetic triad. Rapid onset, prolonged duration, and complete anesthesia describe characteristics of anesthetic agents rather than the fundamental goals of anesthesia. Understanding the tri

4. Which of the following anesthetic agents is known to have bronchodilating effects suitable for asthmatic patients?

- A. Desflurane**
- B. Isoflurane**
- C. Halothane**
- D. Sevoflurane**

Sevoflurane is recognized for its bronchodilating effects, making it advantageous for use in patients with asthma or reactive airway disease. These bronchodilating properties can help reduce airway resistance and improve ventilation in asthmatic patients, potentially decreasing the risk of intraoperative bronchospasm. Sevoflurane is a volatile anesthetic that allows for smooth induction and emergence, and its respiratory benefits can enhance patient safety during anesthesia. Compared to other anesthetic agents, it has a lower incidence of airway irritation and is less likely to provoke bronchospasm, which is critical for asthmatic individuals. In contrast, other agents such as desflurane, isoflurane, and halothane may not provide the same level of bronchodilation and could potentially exacerbate airway reactivity in susceptible patients. This makes sevoflurane the preferred choice in the context of managing asthmatic patients during surgical procedures.

5. What is the blood gas partition coefficient for Isoflurane?

- A. 0.42
- B. 0.65
- C. 1.46**
- D. 2.5

The blood gas partition coefficient for Isoflurane is 1.46. This coefficient is a key pharmacological parameter that indicates the solubility of the anesthetic agent in blood compared to its presence in the alveolar gas. A higher blood gas partition coefficient means that the agent is more soluble in blood, leading to a slower induction and recovery from anesthesia. Isoflurane, with a coefficient of 1.46, is relatively more soluble in blood than some other anesthetics, which is important for clinicians when considering the speed of onset and offset of anesthesia during surgical procedures. This value reflects how Isoflurane behaves pharmacokinetically, informing choices regarding dosage and timing when used in clinical practice. Knowing this coefficient helps practitioners predict how long it will take for Isoflurane to reach effective concentrations in the bloodstream and how quickly patients might emerge from anesthesia once administration is halted. The other values do not accurately represent the blood gas partition coefficient for Isoflurane, reinforcing the importance of understanding these parameters when selecting anesthetics for specific clinical scenarios.

6. What is a concerning sign during a preanesthetic evaluation related to differential diagnosis?

- A. A history of successful intubation
- B. A history of difficult intubation**
- C. An absence of previous surgeries
- D. A normal respiratory rate

During a preanesthetic evaluation, a history of difficult intubation is a significant concern because it raises the likelihood of complications during airway management. This history indicates that there may be anatomical or physiological factors that could complicate the intubation process, such as variations in the airway, limited mouth opening, or other structural abnormalities. Anesthesiologists need to be aware of any previous difficulties to plan appropriately for alternative airway management strategies, such as the use of video laryngoscopy, supraglottic airway devices, or even the potential need for a surgical airway. In contrast, a history of successful intubation suggests that previous intubation attempts were uncomplicated, which decreases the concern for potential airway difficulties. The absence of previous surgeries does not provide any significant information regarding the airway since surgeries could be unrelated to intubation challenges. Similarly, a normal respiratory rate is a reassuring sign indicating normal respiratory function and does not contribute to concerns during preanesthetic evaluations. Thus, the presence of a difficult intubation history is a key factor that necessitates careful consideration in the anesthetic plan.

7. What is the primary characteristic of an open breathing system?

- A. Complete rebreathing with low fresh gas flow**
- B. No reservoir used and no rebreathing**
- C. A reservoir used with partial rebreathing**
- D. A reservoir used with no rebreathing**

An open breathing system is characterized by the absence of rebreathing and a reservoir. In such systems, gases are continuously vented to the environment, which prevents the patient from inhaling any exhaled gases. This setup allows for a fresh gas flow that meets or exceeds the patient's metabolic needs, ensuring that the patient receives only fresh anesthetic gases. The lack of a reservoir means that there is no collection of exhaled gases, further supporting the open nature of this system. Consequently, this design is primarily used in situations where there is a need for minimal resistance to breathing and a free flow of gases. In contrast, systems that involve complete rebreathing or partial rebreathing would incorporate mechanisms to allow for the inhalation of previously exhaled gases, thus not aligning with the definition of an open system. Therefore, the core feature of an open breathing system is the absence of any form of gas rebreathing and the continuous introduction of fresh gas to the patient.

8. Vocal cord paralysis most commonly occurs due to damage of which nerve?

- A. Glossopharyngeal**
- B. Hypoglossal**
- C. Recurrent laryngeal**
- D. Superior laryngeal**

Vocal cord paralysis is most commonly attributed to damage of the recurrent laryngeal nerve. This nerve is a branch of the vagus nerve and is crucial for the motor control of most of the intrinsic muscles of the larynx, which are responsible for vocal cord movement. When the recurrent laryngeal nerve is injured, it can lead to an inability to abduct or adduct the vocal cords effectively, resulting in conditions such as hoarseness, breathy voice, or even airway obstruction in severe cases. The recurrent laryngeal nerve has a unique anatomical course, looping under the aortic arch on the left side and around the subclavian artery on the right, making it susceptible to various forms of injury, including surgical trauma during neck or thoracic procedures, compression tumors, or even viral infections. Damage to this nerve therefore presents a clear clinical picture of vocal cord paralysis due to its direct role in laryngeal function. Other nerves mentioned, such as the glossopharyngeal, hypoglossal, and superior laryngeal nerves, while essential to other functions in the head and neck, do not primarily control the vocal cord muscles involved in phonation to the same extent as the recurrent laryngeal nerve.

9. What laboratory value is monitored in patients on anticoagulant therapy?

- A. Blood glucose**
- B. Prothrombin time**
- C. Hemoglobin**
- D. Platelet count**

The prothrombin time (PT) is the laboratory value that is specifically monitored in patients undergoing anticoagulant therapy, particularly those receiving vitamin K antagonists like warfarin. PT assesses the extrinsic pathway of coagulation and is crucial for determining the effectiveness and safety of anticoagulant dosing. Monitoring PT allows healthcare providers to ensure that patients are within the therapeutic range, which is essential to prevent both thrombotic complications and excessive bleeding. Adjusting the dose of anticoagulants often depends on the results of PT, as deviations from the desired range may necessitate changes in therapy. Other laboratory values, such as blood glucose, hemoglobin, and platelet count, are important in different contexts but do not provide direct insight into the effectiveness of anticoagulation therapy. Blood glucose is primarily monitored in diabetic patients, hemoglobin levels relate to oxygen-carrying capacity and anemia, and platelet counts are useful in assessing the risk of bleeding or clotting disorders but do not measure the specific effects of anticoagulants like PT does.

10. Which conditions can lead to elevated T4 levels?

- A. Hyperthyroidism**
- B. Primary hypothyroidism**
- C. Secondary hypothyroidism**
- D. Pregnancy**

Elevated levels of T4, or thyroxine, are commonly associated with hyperthyroidism. This condition occurs when the thyroid gland is overactive, producing an excess of thyroid hormones. The elevated T4 production leads to an increase in metabolic rate and can manifest through a variety of symptoms such as weight loss, increased heart rate, sweating, and anxiety among others. In the context of primary and secondary hypothyroidism, the thyroid hormone levels, including T4, are typically low due to insufficient hormone production or inadequate stimulation of the thyroid gland. Pregnancy can also alter thyroid hormone levels, often leading to increased levels of bound T4; however, the free T4 levels may not be significantly elevated unless accompanied by other factors. Therefore, hyperthyroidism is the primary condition directly linked to consistently high levels of T4.

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://nbcnaqotw.examzify.com>

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