

NEET Forensic Medicine & Toxicology (FMT) Practice Test (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 combination of symptoms includes carboluria, ochonosis, and miosis?**
 - A. Iron deficiency**
 - B. Phenolic acid poisoning**
 - C. Xenobiotic exposure**
 - D. Lead toxicity**

- 2. In an autopsy for pneumothorax, which part is typically examined first?**
 - A. Heart**
 - B. Neck**
 - C. Lungs**
 - D. Abdomen**

- 3. What is a classic sign of arsenic poisoning?**
 - A. Hematemesis**
 - B. Cramping abdominal pain**
 - C. Severe headaches**
 - D. Mees lines in the nails**

- 4. What does the term "piggyback" refer to in the context of bullet trajectories?**
 - A. Two bullets fired from a single chamber**
 - B. Two bullets that travel side by side**
 - C. Two bullets that hit the same target**
 - D. Two bullets that exit in tandem**

- 5. What is the age of a child with their first permanent molar at 6 years?**
 - A. 2 years**
 - B. 4 years**
 - C. 6 years**
 - D. 8 years**

- 6. Black foot disease is caused by which substance?**
- A. Lead**
 - B. Arsenic**
 - C. Ergot**
 - D. Mercury**
- 7. Which rule relates the age of a fetus to its length for estimating growth?**
- A. Hasse's rule**
 - B. Morrison's rule**
 - C. Puppe's rule**
 - D. Marshall's rule**
- 8. Which factor is measured by the Ashley rule in forensic medicine?**
- A. Stature**
 - B. Sternum length**
 - C. Bone density**
 - D. Age estimation**
- 9. Which type of drug is primarily associated with causing priapism?**
- A. Antidepressants**
 - B. Antihistamines**
 - C. Antihypertensives**
 - D. Analgesics**
- 10. What is the primary difference between supercundation and fetation?**
- A. Number of cycles**
 - B. Number of eggs**
 - C. Number of coital acts**
 - D. All of the above**

Answers

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

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Explanations

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1. What combination of symptoms includes carboluria, ochonosis, and miosis?

- A. Iron deficiency
- B. Phenolic acid poisoning**
- C. Xenobiotic exposure
- D. Lead toxicity

The combination of symptoms including carboluria, ochonosis, and miosis is indicative of phenolic acid poisoning. Carboluria refers to the presence of phenolic compounds in the urine, which is a direct consequence of exposure to phenolic substances. Ochonosis, or blue-black discoloration of connective tissues, can occur due to the metabolization and accumulation of phenolic compounds in the body. Miosis, or constricted pupils, is a common response to certain toxic substances, including those affecting the nervous system. This set of symptoms aligns specifically with phenolic acid poisoning because these compounds can disrupt normal metabolic processes and exert neurotoxic effects, leading to the clinical manifestations mentioned. Other options, such as iron deficiency, xenobiotic exposure in a broader sense, and lead toxicity, do not specifically correlate with this distinct triad of symptoms and their biochemical implications.

2. In an autopsy for pneumothorax, which part is typically examined first?

- A. Heart
- B. Neck
- C. Lungs**
- D. Abdomen

In cases of suspected pneumothorax, the initial focus during an autopsy is typically on the lungs. This is because pneumothorax involves the accumulation of air in the pleural space, which directly impacts lung function and can be a crucial factor in determining the cause of death. By examining the lungs first, the forensic pathologist can assess for signs such as the presence of air in the pleural cavity, lung collapse, and any associated trauma or disease that may have contributed to the condition. The other parts of the body, such as the heart, neck, and abdomen, are clinically important but are often examined after the lungs to establish a clear context of the respiratory pathology first. Understanding the state of the lungs provides essential insights into the overall circumstances leading to death, especially when dealing with chest injuries or respiratory distress scenarios like pneumothorax.

3. What is a classic sign of arsenic poisoning?

- A. Hematemesis
- B. Cramping abdominal pain
- C. Severe headaches
- D. Mees lines in the nails**

Mees lines in the nails are a classic sign of arsenic poisoning. These lines are transverse white bands that run across the nail and can indicate a history of systemic illness or poisoning. They are a result of the effect of toxins like arsenic on the growth of the nail matrix, leading to interruptions in nail formation during periods of exposure. Arsenic is known for its ability to cause various symptoms, but Mees lines specifically serve as a visual indicator that can aid in diagnosing chronic exposure to the toxin. The appearance of these lines can occur weeks to months after the exposure has taken place. In contrast, other symptoms associated with arsenic poisoning, such as vomiting (which might relate to hematemesis), gastrointestinal distress (which would encompass abdominal cramping), and headaches, are more immediate and nonspecific, reflecting acute toxic exposures rather than serving as long-term indicators. Therefore, while they may be related to arsenic poisoning, they do not provide the same diagnostic utility as the presence of Mees lines.

4. What does the term "piggyback" refer to in the context of bullet trajectories?

- A. Two bullets fired from a single chamber
- B. Two bullets that travel side by side
- C. Two bullets that hit the same target
- D. Two bullets that exit in tandem**

The term "piggyback" in the context of bullet trajectories refers to two bullets that exit a firearm in tandem, meaning they leave the barrel very closely spaced in time and trajectory. This can occur in certain specific conditions, such as when multiple projectiles are fired simultaneously or when a malfunction in the firearm allows for the discharge of two rounds without a complete separation of the firing process. Understanding this concept is important in forensic investigations, as it can have implications for the analysis of crime scenes and ballistic trajectories. The examination of bullet wounds, the pattern of trajectory, and the number of bullets involved can provide crucial evidence regarding the shooting incident. The focus on "exiting in tandem" distinguishes this phenomenon from other options that do not accurately depict the spatial and timing characteristics of bullets as they travel together closely.

5. What is the age of a child with their first permanent molar at 6 years?

- A. 2 years**
- B. 4 years**
- C. 6 years**
- D. 8 years**

The presence of a child's first permanent molar, commonly referred to as the "six-year molar," typically erupts around the age of 6 years. This tooth is part of the permanent dentition and is an important indicator of dental development in children. When assessing the development stages of teeth, the eruption of the first permanent molar marks a significant milestone. It usually occurs between the ages of 6 and 7 and is one of the first indicators that the child is transitioning from primary (deciduous) teeth to permanent teeth. Therefore, identifying the age of 6 years aligns perfectly with when this specific molar usually erupts. Understanding this developmental milestone highlights not only the timing of tooth eruption but also serves as a reminder of the broader context of children's dental development, including the sequence and age of other primary and permanent teeth.

6. Black foot disease is caused by which substance?

- A. Lead**
- B. Arsenic**
- C. Ergot**
- D. Mercury**

Black foot disease, also known as ergotism, is primarily caused by the ingestion of ergot alkaloids. These alkaloids are produced by a fungus called *Claviceps purpurea*, which infects cereal grains such as rye. When the contaminated grains are consumed, they can lead to a range of symptoms, including severe vascular constriction, which can cause gangrene, particularly in the extremities—hence the association with "black foot." The disease presents clinically with symptoms like coldness, tingling, and pain in the affected parts, often leading to necrosis. Ergotism has a historical context, with notable outbreaks occurring in Europe during the Middle Ages when grain contaminated with ergot was consumed. Other substances mentioned, such as lead, arsenic, and mercury, lead to different toxic syndromes and are not associated with the specific symptoms or pathology seen in black foot disease. Lead can cause neurological and hematological issues, arsenic is linked to multiple organ toxicity, and mercury is known for its neurotoxic effects. Each of these has a distinct clinical presentation, separate from the manifestations of ergotism.

7. Which rule relates the age of a fetus to its length for estimating growth?

- A. Hasse's rule**
- B. Morrison's rule**
- C. Puppe's rule**
- D. Marshall's rule**

The correct answer is Morrison's rule, which establishes a correlation between the length of a fetus and its age. This rule is particularly useful in forensic medicine for estimating fetal age based on measurable lengths such as crown-rump length. The principle behind Morrison's rule is that there is a predictable growth pattern during gestation, allowing medical professionals and forensic experts to infer the age of a fetus based on its length. The other options do not pertain specifically to the relationship between fetal growth and length. Hasse's rule is often associated with different aspects of fetal measurements, while Puppe's rule typically deals with forensic psychiatric evaluations rather than fetal development. Marshall's rule is not recognized in this context of fetal size and age, making Morrison's rule the most relevant and applicable for estimating fetal growth.

8. Which factor is measured by the Ashley rule in forensic medicine?

- A. Stature**
- B. Sternum length**
- C. Bone density**
- D. Age estimation**

The Ashley rule is specifically concerned with estimating the age of skeletal remains, particularly through the measurement of certain skeletal features. Among the options provided, the correct choice relates to "sternum length." This measurement has been utilized in forensic anthropology to assist in determining the age of an individual based on the development and ossification of the sternum, as well as its overall morphological changes over time. The rule highlights the relationship between skeletal dimensions and the age at death, providing a valuable method in forensic medicine for age estimation when only skeletal remains are available. The reason the other options aren't correct is that, while stature, bone density, and age estimation are important aspects measured in forensic medicine, the Ashley rule specifically focuses on the lengths and characteristics of the sternum to infer age. Thus, the correct answer emphasizes the relevance of sternum length in forensic age estimation applications.

9. Which type of drug is primarily associated with causing priapism?

- A. Antidepressants**
- B. Antihistamines**
- C. Antihypertensives**
- D. Analgesics**

Priapism, a prolonged and often painful erection that lasts more than four hours, is primarily associated with certain medications, most notably some antihypertensives. This is particularly true for drugs such as trazodone, which, while primarily an antidepressant, also has effects on blood pressure regulation. Antihypertensives can lead to priapism through mechanisms that affect vascular function or neurological pathways. While other drug categories, such as antidepressants and certain analgesics, can occasionally be implicated in priapism, it is antihypertensives that create a more direct connection through their influence on blood flow and vascular dynamics. Antihistamines are less commonly associated with this condition, mainly because they typically have a different profile of side effects impacting vascular or erectile function. Understanding priapism's association with these types of medications is crucial, especially in a clinical setting, to prevent potential complications linked to such prolonged erections, which can result in tissue damage if not addressed promptly.

10. What is the primary difference between supercundation and fetation?

- A. Number of cycles**
- B. Number of eggs**
- C. Number of coital acts**
- D. All of the above**

Supercundation and fetation refer to different reproductive processes. Supercundation involves fertilization of multiple oocytes from different ovulatory cycles or different mating events, often leading to the birth of twins or multiple offspring with different conception dates. This phenomenon highlights the complexities of reproductive timing and the potential for varying genetic contributions from different fathers in species that mate with multiple partners. Fetation, on the other hand, refers specifically to the development of the fetus within the uterus after fertilization has occurred. This process does not necessarily involve multiple cycles, eggs, or coital acts, as it is the continuation of the pregnancy after a single successful fertilization event. The primary differences in the contexts of supercundation and fetation encapsulate various scenarios regarding the number of cycles (supercundation can involve eggs from different cycles), the number of eggs (multiple eggs can be fertilized in supercundation), and the number of coital acts (there can be multiple mating events involved in supercundation). Hence, the comprehensive differences espoused through these elements illustrate that all the factors listed contribute to the distinction between the two reproductive processes.

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://neetfmt.examzify.com>

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