

Dermatology Physician Assistant National Certifying Examination (PANCE) Practice (Sample)

Study Guide



Everything you need from our exam experts!

Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

SAMPLE

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

SAMPLE

- 1. What type of organism typically causes tinea corporis?**
 - A. Bacteria**
 - B. Dermatophytes**
 - C. Viruses**
 - D. Protozoa**

- 2. Which sign indicates the need for further workup in patients with suspected cellulitis?**
 - A. Regional lymphadenopathy**
 - B. Infection site on the torso**
 - C. Tachypnea**
 - D. Infection site >10 mm**

- 3. What is the mechanism of action of topical calcineurin inhibitors in eczema treatment?**
 - A. Stimulation of skin cell growth**
 - B. Inhibition of T-cell activation and cytokine release**
 - C. Inhibition of keratinocyte proliferation**
 - D. Blocking of histamine receptors**

- 4. Which condition is typically exacerbated by cold weather and occurs on the fingers and toes?**
 - A. Raynaud's phenomenon**
 - B. Cold urticaria**
 - C. Chilblains**
 - D. Frostbite**

- 5. What test is most appropriate to perform for better identification of condyloma acuminata lesions?**
 - A. Acetowhitening**
 - B. Tzanck smear**
 - C. Potassium hydroxide test**
 - D. Wood's light fluoroscopy**

- 6. What is the primary cause of acne vulgaris?**
- A. Hyperkeratinization of hair follicles**
 - B. Bacterial infection**
 - C. Hormonal fluctuations**
 - D. All of the above**
- 7. What skin condition involves excessive oil production and enlarged pores?**
- A. Eczema**
 - B. Psoriasis**
 - C. Acne**
 - D. Rosacea**
- 8. Which mediator is primarily responsible for initiating the urticaric response?**
- A. A Cyclic AMP**
 - B. B Prostaglandins**
 - C. C Prednisone**
 - D. D IgE**
- 9. Which factor is commonly associated with the exacerbation of eczema?**
- A. Cigarette smoke**
 - B. Low humidity**
 - C. Warm temperatures**
 - D. Cold weather**
- 10. In which layer of the skin do melanocytes primarily reside?**
- A. Stratum corneum**
 - B. Stratum granulosum**
 - C. Stratum spinosum**
 - D. Stratum basale**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. What type of organism typically causes tinea corporis?

- A. Bacteria
- B. Dermatophytes**
- C. Viruses
- D. Protozoa

Tinea corporis, commonly known as ringworm of the body, is primarily caused by dermatophytes, which are a group of fungi. Dermatophytes have the ability to invade keratinized tissues, such as the skin, hair, and nails, leading to infections characterized by circular, red, itchy patches with clear centers. These fungi thrive in warm, moist environments and can be found in soil, on animals, and on humans. The infective nature of dermatophytes and their specific adaptation to keratin make them the leading cause of tinea corporis. Understanding the role of dermatophytes in tinea corporis is crucial because it guides appropriate therapeutic interventions, which typically involve antifungal medications targeting these fungal organisms. In contrast, other types of organisms such as bacteria, viruses, or protozoa do not typically cause this particular condition, which is specifically related to fungal infections of the skin.

2. Which sign indicates the need for further workup in patients with suspected cellulitis?

- A. Regional lymphadenopathy
- B. Infection site on the torso
- C. Tachypnea**
- D. Infection site >10 mm

The presence of tachypnea in a patient suspected of having cellulitis is a significant clinical indicator warranting further workup. Tachypnea suggests respiratory distress or a systemic response to infection, such as sepsis. In the context of cellulitis, this can imply that the infection may be more severe than initially assessed or that there could be an accompanying systemic illness. This urgency is necessary because it raises concerns about the patient's overall stability and the potential for complications that can arise from an untreated or advanced infection. While regional lymphadenopathy, an infection site on the torso, and a localized infection site greater than 10 mm can all be observed in cases of cellulitis, they do not necessarily indicate the same level of concern as tachypnea. Regional lymphadenopathy might suggest lymphatic spread but does not inherently imply severity. Similarly, the location of the infection or its size can vary, and while they may influence management, they do not create an immediate need for escalated intervention compared to respiratory distress indicators. Thus, tachypnea stands out as a more critical sign that necessitates further evaluation and possible intervention.

3. What is the mechanism of action of topical calcineurin inhibitors in eczema treatment?

- A. Stimulation of skin cell growth
- B. Inhibition of T-cell activation and cytokine release**
- C. Inhibition of keratinocyte proliferation
- D. Blocking of histamine receptors

Topical calcineurin inhibitors, such as tacrolimus and pimecrolimus, primarily function by inhibiting T-cell activation and subsequent cytokine release. This mechanism is essential in managing eczema because it addresses the underlying immunological component of the disease. In eczema, there is a significant involvement of T-cells and the production of pro-inflammatory cytokines, which contribute to the inflammation and symptoms associated with the condition. By inhibiting calcineurin, these topical agents reduce the activation of T-cells, leading to decreased production of cytokines like interleukin-2, which plays a crucial role in the inflammatory process. This action helps to control inflammation without the side effects often associated with traditional topical corticosteroids. Other options do not accurately represent the mechanism of action of calcineurin inhibitors. For instance, stimulation of skin cell growth is more characteristic of other treatments and not the primary action of these inhibitors. Inhibition of keratinocyte proliferation is not a direct effect of calcineurin inhibitors; rather, they focus on modulating the immune response. Lastly, blocking of histamine receptors belongs to a different class of medications, specifically antihistamines, which are not the action of calcineurin inhibitors. Thus, the correct understanding of

4. Which condition is typically exacerbated by cold weather and occurs on the fingers and toes?

- A. Raynaud's phenomenon**
- B. Cold urticaria
- C. Chilblains
- D. Frostbite

Raynaud's phenomenon is characterized by episodic vasospasm in the small blood vessels of the fingers and toes, leading to color changes, numbness, and discomfort typically triggered by cold exposure or emotional stress. In colder weather, these symptoms can worsen significantly as the body attempts to conserve heat by constricting blood vessels, causing reduced blood flow to the extremities. This results in the classic tri-color change of pallor, cyanosis, and finally erythema as blood flow returns. In contrast, cold urticaria is an allergic skin reaction characterized by hives or welts upon exposure to cold stimuli, but it does not result from vasospasm and is not limited to the fingers and toes. Chilblains, while also associated with cold, occur due to prolonged exposure to non-freezing cold and typically affect the fingers and toes along with swelling and itching. Frostbite is a more severe condition resulting from freezing of the skin and underlying tissues, which can occur with prolonged exposure to extreme cold but doesn't specifically refer to the phenomenon of vasospasm.

5. What test is most appropriate to perform for better identification of condyloma acuminata lesions?

- A. Acetowhitening**
- B. Tzanck smear**
- C. Potassium hydroxide test**
- D. Wood's light fluoroscopy**

Acetowhitening is the most appropriate test for better identification of condyloma acuminata lesions. This test involves applying acetic acid to the lesions, which causes the HPV-infected skin to turn white, making it easier to visualize and confirm the presence of these genital warts. The increased whiteness occurs due to the dehydration of the epithelial cells and is particularly useful in identifying lesions that may be otherwise difficult to discern. Other tests mentioned have different purposes: a Tzanck smear is primarily used to diagnose herpes simplex virus infections by looking for multinucleated giant cells in skin lesions, while the potassium hydroxide test is utilized to identify fungal infections by dissolving keratin and revealing fungal elements. Wood's light fluoroscopy is employed for diagnosing specific conditions like fungal infections or pigmentation disorders, rather than for viral lesions such as condyloma acuminata. Acetowhitening's specificity for HPV-related lesions makes it the preferred choice in clinical settings when evaluating suspected cases.

6. What is the primary cause of acne vulgaris?

- A. Hyperkeratinization of hair follicles**
- B. Bacterial infection**
- C. Hormonal fluctuations**
- D. All of the above**

Acne vulgaris is a multifactorial skin condition leading to the formation of acne lesions. The primary cause can be attributed to several interconnected factors, each playing a crucial role in the development of the condition. Hyperkeratinization of hair follicles is significant because it leads to the clogging of pores, which can create an environment where acne can develop. When the keratinocytes in the hair follicle become excessively thickened, this can obstruct the natural flow of sebum, promoting the formation of comedones. Bacterial infection, particularly with *Propionibacterium acnes* (now known as *Cutibacterium acnes*), is another vital factor in acne pathogenesis. This bacterium thrives in the anaerobic environment of clogged follicles and can contribute to inflammation and the formation of pustules and nodules. Hormonal fluctuations, particularly during puberty, menstrual cycles, and pregnancy, also play an essential role in acne, as they can stimulate sebaceous gland activity leading to increased sebum production. This variation in hormone levels can exacerbate the condition, making it more prevalent in certain populations. Recognizing that all these factors interact to promote acne vulgaris highlights the complexity of the condition and underscores why understanding each aspect is critical in diagnosis and

7. What skin condition involves excessive oil production and enlarged pores?

- A. Eczema
- B. Psoriasis
- C. Acne**
- D. Rosacea

Acne is characterized by excessive oil production and the presence of enlarged pores. It is primarily associated with the overactivity of sebaceous glands, which produce sebum. This excess oil can clog hair follicles, leading to the formation of comedones (both open and closed), papules, pustules, and sometimes cysts. The enlarged pores are a direct consequence of the accumulation of oil, dead skin cells, and bacteria within the follicles, which can cause inflammation and result in the visible appearance of these pores. In contrast, eczema is primarily a condition that involves inflammation and irritation of the skin without a direct correlation to excess oil production. Psoriasis is an autoimmune condition characterized by rapid skin cell turnover, leading to thick, scaly patches rather than enlarged pores or excess oil. Rosacea involves facial redness and visible blood vessels, often triggered by various environmental factors, but it does not involve increased oil production in the same manner as acne. Thus, the connection between excessive oil production, enlarged pores, and the presentation of acne makes it the correct choice in this context.

8. Which mediator is primarily responsible for initiating the urticaric response?

- A. A Cyclic AMP
- B. B Prostaglandins
- C. C Prednisone
- D. D IgE**

The primary mediator responsible for initiating the urticaric response is IgE, or immunoglobulin E. Urticaria, commonly known as hives, is an allergic reaction that manifests as raised, itchy welts on the skin. The mechanism begins with the sensitization phase where, upon first exposure to an allergen, IgE antibodies are produced. These antibodies bind to mast cells and basophils, priming them for future exposure. When a subsequent exposure to the same allergen occurs, the allergen cross-links the IgE antibodies on these immune cells, leading to degranulation. This degranulation releases a variety of inflammatory mediators, including histamine, which causes the classic symptoms of urticaria such as redness, swelling, and itching. Thus, the role of IgE is crucial as it initiates the process that ultimately results in the development of urticaria. Other mediators like cyclic AMP and prostaglandins play roles in different physiological processes, such as signaling pathways and inflammation, but they do not primarily initiate the urticaric response. Similarly, prednisone is a corticosteroid that may be used to treat inflammation but does not directly trigger the urticaric response. Therefore, IgE

9. Which factor is commonly associated with the exacerbation of eczema?

- A. Cigarette smoke**
- B. Low humidity**
- C. Warm temperatures**
- D. Cold weather**

Eczema, or atopic dermatitis, can be exacerbated by several environmental and lifestyle factors, and warm temperatures play a nuanced role in this condition. The primary mechanism behind the exacerbation of eczema in warm temperatures is related to sweat and increased skin moisture. When people sweat, it can lead to irritation, which can provoke itching and inflammation in those who are predisposed to eczema. Additionally, warm environments often coincide with higher humidity, which can lead to the skin becoming overly moist and prone to bacterial or yeast infections. Both of these conditions can further irritate the skin barrier, which is already compromised in individuals with eczema. Therefore, while warm temperatures alone may not directly cause a flare-up, the accompanying increase in sweating and potential for secondary skin infections can exacerbate the condition significantly. In contrast, cigarette smoke and low humidity are indeed associated with eczema flares, but warm temperatures are specifically linked to the physiological response of sweating and potential for infection. Cold weather, on the other hand, is also known to worsen eczema due to dry air and reduced humidity, causing skin to lose moisture and become more susceptible to irritation. However, the question specifically seeks the most common association, where warm temperatures, due to their effect on sweating and skin conditions, usually lead

10. In which layer of the skin do melanocytes primarily reside?

- A. Stratum corneum**
- B. Stratum granulosum**
- C. Stratum spinosum**
- D. Stratum basale**

Melanocytes are specialized cells responsible for producing melanin, the pigment that gives skin its color. These cells are primarily located in the stratum basale, the deepest layer of the epidermis. In the stratum basale, melanocytes reside adjacent to the basal keratinocytes and are crucial for protecting the skin from ultraviolet (UV) radiation by producing melanin, which filters and absorbs harmful UV rays. This protective function is especially important given the skin's exposure to sunlight. The other layers of the epidermis do not have a significant number of melanocytes. For instance, the stratum corneum consists mainly of dead keratinized cells that do not produce melanin. The stratum granulosum features keratinocytes that are migrating upwards and starting to lose their nuclei, while the stratum spinosum contains keratinocytes with desmosomal connections, which help in providing strength to the skin but do not contain melanocytes in significant numbers either. Thus, the stratum basale is the specific layer where melanocytes are found, highlighting their fundamental role in skin pigmentation and UV protection.

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://dermatologypance.examzify.com>

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

SAMPLE