

KMK Live Session General Pharmacy 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

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- 1. Which statement about the mechanism of action of fluoroquinolones is true?**
 - A. They disrupt cell wall synthesis**
 - B. They inhibit DNA gyrase and Topoisomerase IV**
 - C. They inhibit RNA polymerase**
 - D. They inhibit folate synthesis**

- 2. What is the typical dosing per day for topical Trifluridine (Viroptic)?**
 - A. 6x daily**
 - B. 9x daily**
 - C. 12x daily**
 - D. 3x daily**

- 3. Which of the following is NOT an SSRI?**
 - A. Fluoxetine**
 - B. Escitalopram**
 - C. Venlafaxine**
 - D. Citalopram**

- 4. Which GI medication is a Proton Pump Inhibitor?**
 - A. Cimetidine**
 - B. Omeprazole**
 - C. Sucralfate**
 - D. Famotidine**

- 5. Which penicillin is penicillinase resistant?**
 - A. Dicloxacillin**
 - B. Amoxicillin**
 - C. Augmentin**
 - D. Ampicillin**

- 6. Which NSAID is a selective Cox-2 inhibitor?**
 - A. Aspirin**
 - B. Fluticasone**
 - C. Indomethacin**
 - D. Celecoxib**

- 7. Erythromycin is an example of which class?**
- A. Macrolide**
 - B. Penicillin**
 - C. Tetracycline**
 - D. Fluoroquinolone**
- 8. Rifampin can cause a notable discoloration of bodily fluids. Which option reflects this effect?**
- A. Blue sclera**
 - B. Pink tears**
 - C. Hair whitening**
 - D. Nausea**
- 9. Which topical Anti Herpes Agent has the worst toxic SPK side effect associated with it?**
- A. Trifluridine**
 - B. Ganciclovir**
 - C. Acyclovir**
 - D. Penciclovir**
- 10. Which NSAID is considered an "irreversible" Cox inhibitor?**
- A. Aspirin**
 - B. Ibuprofen**
 - C. Naproxen**
 - D. Celecoxib**

Answers

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

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Explanations

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1. Which statement about the mechanism of action of fluoroquinolones is true?

- A. They disrupt cell wall synthesis
- B. They inhibit DNA gyrase and Topoisomerase IV**
- C. They inhibit RNA polymerase
- D. They inhibit folate synthesis

The key idea is that fluoroquinolones kill bacteria by blocking two essential enzymes that manage DNA topology during replication: DNA gyrase and topoisomerase IV. DNA gyrase helps twist and unkink DNA by introducing negative supercoils, which is needed as the chromosome is copied. Topoisomerase IV is important for separating the newly replicated chromosomes so the daughter cells can be divided. When fluoroquinolones bind to these enzyme-DNA complexes, they prevent the enzymes from re-ligating the DNA strands, leading to stalled replication and lethal double-strand DNA breaks. This action makes them bactericidal and explains why the statement about inhibiting DNA gyrase and topoisomerase IV is true. This mechanism is distinct from agents that disrupt cell wall synthesis, inhibit RNA polymerase, or block folate synthesis, which affect different bacterial processes.

2. What is the typical dosing per day for topical Trifluridine (Viroptic)?

- A. 6x daily
- B. 9x daily**
- C. 12x daily
- D. 3x daily

Frequent application is needed because trifluridine is cleared quickly from the tear film and has limited persistence on the ocular surface. The standard regimen aims to maintain therapeutic levels in the cornea, so the typical dosing is one drop every two hours during waking hours, which totals about nine doses per day. This high-frequency plan is usually used for about a week and then tapered as signs improve. Lowering the frequency to three times daily would provide insufficient antiviral exposure to control the infection, while regimens about six or twelve times daily aren't the standard approach and can either miss the target exposure or increase local toxicity. Nine times per day best reflects the balance of efficacy and safety for topical trifluridine.

3. Which of the following is NOT an SSRI?

- A. Fluoxetine
- B. Escitalopram
- C. Venlafaxine**
- D. Citalopram

This question tests your ability to distinguish between antidepressants by their reuptake targets. SSRIs selectively block the reuptake of serotonin, increasing serotonin availability in the synapse. Fluoxetine, escitalopram, and citalopram all fit this category. Venlafaxine, however, is not an SSRI—it's an SNRI. It inhibits the reuptake of both serotonin and norepinephrine, and its norepinephrine effect becomes more pronounced at higher doses. That broader action places it outside the SSRI class, even though it can share similar uses with SSRIs.

4. Which GI medication is a Proton Pump Inhibitor?

- A. Cimetidine
- B. Omeprazole**
- C. Sucralfate
- D. Famotidine

Proton Pump Inhibitors block the final step of acid production in the stomach by inhibiting the H⁺/K⁺ ATPase enzyme on gastric parietal cells, leading to strong and longer-lasting reductions in gastric acidity. Omeprazole is a classic PPI and works by being activated in the acidic environment of the parietal cell canaliculi and then irreversibly inhibiting the proton pump, which substantially lowers acid secretion for a day or two after starting therapy. The other options work differently: some are H₂ receptor blockers that reduce acid by blocking histamine stimulation on parietal cells and are typically less potent; one is a mucosal protectant that doesn't lower acid at all but helps shield the mucosa. So omeprazole fits the Proton Pump Inhibitor class.

5. Which penicillin is penicillinase resistant?

- A. Dicloxacillin**
- B. Amoxicillin
- C. Augmentin
- D. Ampicillin

Penicillinase-resistant penicillins have bulky side chains that shield the beta-lactam ring from beta-lactamase enzymes produced by certain bacteria, especially *Staphylococcus* species. Dicloxacillin has such protective bulky groups, so it remains active even when penicillinase is present. Amoxicillin and ampicillin lack this protective feature and are readily inactivated by penicillinase. Augmentin combines amoxicillin with clavulanic acid, a beta-lactamase inhibitor; this pairing extends activity by inhibiting the enzyme, but the underlying antibiotic isn't intrinsically penicillinase resistant. Therefore, the penicillin in this set that is penicillinase resistant is dicloxacillin.

6. Which NSAID is a selective Cox-2 inhibitor?

- A. Aspirin
- B. Fluticasone
- C. Indomethacin
- D. Celecoxib**

Celecoxib is the NSAID that selectively inhibits COX-2. It's designed so that it binds more strongly to the COX-2 enzyme than to COX-1, thanks to its chemical structure that fits a side pocket present in COX-2. This selective binding blocks COX-2-mediated prostaglandin production, giving anti-inflammatory relief while sparing COX-1, which helps protect the stomach and support platelet function. Clinically, that translates to fewer gastrointestinal side effects and less impact on platelets compared with nonselective NSAIDs. However, there's still cardiovascular risk with COX-2 inhibitors, and celecoxib contains a sulfonamide group, so it's avoided in sulfa allergies. By contrast, aspirin and indomethacin inhibit both COX-1 and COX-2 (nonselective), and fluticasone is a corticosteroid, not an NSAID.

7. Erythromycin is an example of which class?

- A. Macrolide**
- B. Penicillin**
- C. Tetracycline**
- D. Fluoroquinolone**

Antibiotics are grouped by how they work and their chemical structure. Erythromycin falls into the macrolide class because it is a large macrocyclic lactone antibiotic with sugar components that binds to the 50S ribosomal subunit. This binding blocks the translocation step of protein synthesis, so the bacteria can't make proteins needed to grow. This mechanism is distinct from penicillins, which disrupt cell wall synthesis; from tetracyclines, which block the 30S subunit and prevent tRNA attachment; and from fluoroquinolones, which inhibit DNA gyrase and topoisomerase IV to stop DNA replication. The macrolide structure and mechanism explain erythromycin's typical use against many Gram-positive organisms and certain atypical pathogens.

8. Rifampin can cause a notable discoloration of bodily fluids. Which option reflects this effect?

- A. Blue sclera**
- B. Pink tears**
- C. Hair whitening**
- D. Nausea**

Rifampin contains a vivid pigment that can color body fluids. When the drug is excreted into tears, this pigment can tint the tears a pinkish or orange hue. This is a known, harmless discoloration that can also stain contact lenses or clothing. The other options don't reflect this pigment-related effect—blue sclera isn't caused by rifampin, hair whitening isn't a typical rifampin effect, and nausea is a side effect but not a color change.

9. Which topical Anti Herpes Agent has the worst toxic SPK side effect associated with it?

- A. Trifluridine**
- B. Ganciclovir**
- C. Acyclovir**
- D. Penciclovir**

The main idea here is that the eye's surface toxicity varies among topical antiherpetic drugs, and one agent is notably more damaging to the corneal epithelium than the others. Trifluridine tends to cause the most corneal surface toxicity, presenting as superficial punctate keratitis. Why this is the best answer: Trifluridine is a nucleoside analogue that becomes activated by many cellular kinases and can disrupt DNA synthesis in both infected and uninfected corneal epithelial cells. Its lack of strong selectivity for viral enzymes means it damages the healthy corneal surface more readily, leading to pronounced SPK and irritation. In contrast, ganciclovir and penciclovir are activated more selectively by viral kinases, so they spare uninfected epithelial cells to a greater extent and produce milder surface toxicity. Acyclovir shares a similar pattern with relatively better tolerability. Because of its higher risk of ocular surface damage, trifluridine is generally used for shorter periods, with close monitoring and consideration of switching to a less toxic option if SPK develops. So the agent with the worst SPK side effect is trifluridine.

10. Which NSAID is considered an "irreversible" Cox inhibitor?

- A. Aspirin**
- B. Ibuprofen**
- C. Naproxen**
- D. Celecoxib**

The key idea is that some NSAIDs inhibit COX enzymes permanently, while others only block them temporarily. Aspirin acts by covalently acetylating a serine in the COX enzyme, which irreversibly inactivates it. In platelets, this is especially important because they can't synthesize new COX, so the anti-platelet effect lasts for the platelet's entire lifespan (about 7-10 days). That lasting effect is what makes aspirin stand out as an irreversible COX inhibitor. In contrast, ibuprofen and naproxen bind reversibly to COX, so once the drug is cleared, COX activity returns quickly. Celecoxib also binds reversibly, though it's selective for COX-2. So aspirin is the irreversible COX inhibitor among the options.

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://kmklivesessiongenpharm.examzify.com>

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

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