

Pharmacology Drug Classifications 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 drug classification includes Dramamine, Marinol, Phenergan, Reglan, Tigan?**
 - A. Antiemetic**
 - B. Antidote**
 - C. Antihistamine**
 - D. Antibiotic**

- 2. Which class includes medications such as Lidocaine HCl (Xylocaine) used to treat cardiac arrhythmias?**
 - A. Antibiotic**
 - B. Antiarrhythmic**
 - C. Vasodilator**
 - D. Anticonvulsant**

- 3. Which drug class is used to treat worm infections?**
 - A. Antiviral**
 - B. Anthelmintics**
 - C. Antianemic**
 - D. Antidysrhythmic**

- 4. Which class of medication suppresses gastric acid secretions and is commonly used to treat GERD?**
 - A. Gastric acid-pump inhibitor**
 - B. Histamine H2 receptor blocker**
 - C. Antacid**
 - D. Prokinetic agent**

- 5. What class lowers blood glucose levels in the management of diabetes?**
 - A. Antihyperglycemic**
 - B. Insulin**
 - C. Glucagon**
 - D. Hypoglycemic**

- 6. Which is used to induce vomiting?**
- A. Emetic**
 - B. Antiviral**
 - C. Expectorant**
 - D. Contraceptive**
- 7. Which drug class works by inhibiting bone resorption to prevent osteoporosis?**
- A. Bone resorption inhibitor**
 - B. Corticosteroid**
 - C. Antipsychotic**
 - D. Anti-infective**
- 8. Which drug class is used to treat vasomotor symptoms of menopause?**
- A. Hormone Replacement Therapy (HRT)**
 - B. Immunosuppressant**
 - C. Lipid-Lowering Agent**
 - D. Ophthalmic Anti-Infective**
- 9. Which class destroys or inhibits the growth of microorganisms?**
- A. Antiviral**
 - B. Antibiotic**
 - C. Antifungal**
 - D. Antiparasitic**
- 10. Which class modifies psychotic behavior in conditions such as schizophrenia?**
- A. Antidepressant**
 - B. Neuroleptic**
 - C. Anxiolytic**
 - D. Stimulant**

Answers

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

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Explanations

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1. Which drug classification includes Dramamine, Marinol, Phenergan, Reglan, Tigan?

A. Antiemetic

B. Antidote

C. Antihistamine

D. Antibiotic

The common theme is preventing or relieving nausea and vomiting. Dramamine, Marinol, Phenergan, Reglan, and Tigan all act as antiemetics, though they work in different ways: dimenhydrinate and promethazine are antihistamines with antiemetic effects; dronabinol is a cannabinoid that helps suppress nausea; metoclopramide blocks dopamine receptors and speeds gastric emptying; trimethobenzamide is another antiemetic agent. Since the group's defining purpose is antiemetic action, this is the correct classification. They aren't antidotes, antibiotics, or a shared antihistamine class.

2. Which class includes medications such as Lidocaine HCl (Xylocaine) used to treat cardiac arrhythmias?

A. Antibiotic

B. Antiarrhythmic

C. Vasodilator

D. Anticonvulsant

The main concept here is that antiarrhythmic drugs are used to correct abnormal heart rhythms by altering the heart's electrical activity. Lidocaine HCl (Xylocaine) is a classic example of an antiarrhythmic drug, specifically a sodium-channel blocker classified in the class I family. It is used to treat certain ventricular arrhythmias by dampening excessive electrical activity in the ventricles. Mechanistically, lidocaine blocks fast sodium channels during depolarization, which lowers the rate of rise of the action potential and reduces automaticity in ventricular tissue. This effect is especially helpful in ischemic or injured tissue, where abnormal impulses tend to originate, helping to prevent dangerous rhythms. This is best explained by comparing to the other categories: antibiotics fight infections, vasodilators widen blood vessels to lower blood pressure or improve blood flow, and anticonvulsants control seizures. None of those classes is primarily used to treat cardiac arrhythmias, whereas antiarrhythmics are specifically used to stabilize heart rhythm.

3. Which drug class is used to treat worm infections?

- A. Antiviral
- B. Anthelmintics**
- C. Antianemic
- D. Antidysrhythmic

Worm infections are caused by helminths, so the medicines used must act on those parasites. Anthelmintics are drugs that kill or paralyze worms, either by disrupting their energy uptake or by affecting their neuromuscular function. For example, albendazole and mebendazole inhibit parasite microtubule formation, trimming off glucose uptake and energy. Praziquantel increases calcium influx, causing paralysis of the worm, and ivermectin disrupts nerve signaling in many parasites. These actions are specific to worms, making anthelmintics the appropriate class for treating worm infections. The other classes don't target helminths: antivirals work against viruses, antianemics address anemia, and antidysrhythmics treat abnormal heart rhythms.

4. Which class of medication suppresses gastric acid secretions and is commonly used to treat GERD?

- A. Gastric acid-pump inhibitor**
- B. Histamine H2 receptor blocker
- C. Antacid
- D. Prokinetic agent

Gastric acid-pump inhibitors, also known as proton pump inhibitors, suppress gastric acid secretion by blocking the final step of acid production in the stomach. They inhibit the H⁺/K⁺-ATPase enzyme on the parietal cells, irreversibly reducing both basal and stimulated acid output. Because of this direct, last-step blockade, they produce the strongest and longest-lasting acid suppression, which is why they're commonly used to treat GERD and promote healing of esophagitis. Other options work differently: histamine H2 receptor blockers reduce acid by blocking histamine-stimulated secretion but are less potent; antacids neutralize existing acid without decreasing production; prokinetic agents help by improving gastric emptying to reduce reflux, not by suppressing acid secretion. Examples of the acid-suppressing class include omeprazole, esomeprazole, pantoprazole, and lansoprazole.

5. What class lowers blood glucose levels in the management of diabetes?

- A. Antihyperglycemic**
- B. Insulin**
- C. Glucagon**
- D. Hypoglycemic**

Lowering blood glucose in diabetes is achieved by hypoglycemic agents. These medicines reduce glucose through various mechanisms, such as increasing insulin availability or action, improving how the body uses insulin, or suppressing glucose production by the liver. The key idea is that they cause a drop in blood glucose, which is exactly what the term hypoglycemic describes. In contrast, glucagon does the opposite by raising glucose levels, and insulin—while it lowers glucose—refers to a specific drug rather than the broader drug class. Antihyperglycemic is a broader descriptor that can apply to any glucose-lowering approach, but the most precise label for the class of drugs that decreases blood sugar is hypoglycemic.

6. Which is used to induce vomiting?

- A. Emetic**
- B. Antiviral**
- C. Expectorant**
- D. Contraceptive**

An emetic is an agent that induces vomiting by stimulating the vomiting center in the brain or triggering reflexes in the stomach and gut. This makes it the correct term for substances used to provoke emesis, such as in certain poisoning scenarios where rapid removal of the toxin is desired. The other options refer to different drug actions: antivirals fight viral infections, expectorants help clear mucus from the airways, and contraceptives prevent pregnancy. None of these induce vomiting.

7. Which drug class works by inhibiting bone resorption to prevent osteoporosis?

- A. Bone resorption inhibitor**
- B. Corticosteroid**
- C. Antipsychotic**
- D. Anti-infective**

Osteoporosis prevention hinges on slowing bone loss by suppressing osteoclast activity. Drugs that inhibit bone resorption do just that—they reduce osteoclast-mediated breakdown of bone, lowering bone turnover and helping maintain or increase bone density to prevent fractures. This class includes agents like bisphosphonates and denosumab, which directly target the cells responsible for bone resorption. Corticosteroids, when used chronically, can promote osteoporosis by decreasing bone formation and increasing resorption, so they are not used to prevent osteoporosis. Antipsychotics and anti-infectives do not act on bone remodeling in a way that prevents osteoporosis.

8. Which drug class is used to treat vasomotor symptoms of menopause?

- A. Hormone Replacement Therapy (HRT)**
- B. Immunosuppressant**
- C. Lipid-Lowering Agent**
- D. Ophthalmic Anti-Infective**

Vasomotor symptoms during menopause come from decreased estrogen, which destabilizes the hypothalamic thermoregulatory center. Replacing hormones with Hormone Replacement Therapy provides estrogen (often with progestin if the patient has a uterus), directly counteracting the hormonal deficit and smoothing out the thermostat in the brain. This reduces hot flashes and night sweats and often improves sleep and quality of life. The progestin part helps protect the lining of the uterus when estrogen is given. Other drug classes listed don't address the hormonal changes driving these symptoms, so they're not used for treating vasomotor symptoms. Hormone Replacement Therapy is the treatment class that directly treats this issue.

9. Which class destroys or inhibits the growth of microorganisms?

- A. Antiviral**
- B. Antibiotic**
- C. Antifungal**
- D. Antiparasitic**

Antibiotics are drugs that specifically target bacteria, a type of microorganism. They can kill bacteria directly (bactericidal) or stop them from growing and multiplying (bacteriostatic), allowing the immune system to clear the infection. This focus on bacteria differentiates them from antiviral, antifungal, and antiparasitic drugs, which act on viruses, fungi, and parasites respectively. Examples include penicillins and cephalosporins that disrupt cell wall synthesis, tetracyclines that inhibit protein synthesis, and fluoroquinolones that interfere with DNA replication.

10. Which class modifies psychotic behavior in conditions such as schizophrenia?

- A. Antidepressant**
- B. Neuroleptic**
- C. Anxiolytic**
- D. Stimulant**

Neuroleptics modify psychotic behavior by blocking dopamine D2 receptors in brain pathways that drive the positive symptoms of schizophrenia, such as hallucinations and delusions. This dopamine blockade in the mesolimbic system reduces these symptoms, making this drug class the primary option for treating the core psychotic features. Other types of drugs don't target this dopamine-driven aspect: antidepressants work mainly on serotonin and/or norepinephrine to treat mood symptoms, anxiolytics address anxiety, and stimulants boost dopaminergic activity which can worsen psychosis rather than improve it. Some neuroleptics, especially the newer ones, also affect serotonin receptors, which can help with additional symptoms and side-effect profiles, but the key action that modifies the psychosis remains dopamine D2 antagonism.

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://pharmdrugclassifications.examzify.com>

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

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