

Registered Cardiac Electrophysiology Specialist (RCES) Practice Exam (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	15

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 are Class I antiarrhythmic drugs?**
 - A. Sodium Channel Blockers**
 - B. Potassium Channel Blockers**
 - C. Calcium Channel Blockers**
 - D. Beta Blockers**

- 2. Which brand name corresponds to the reversal agent for benzodiazepines?**
 - A. Romazicon**
 - B. Narcan**
 - C. Naloxone**
 - D. Protamine**

- 3. Which refractory period of atrial and ventricular tissue shortens with pacing, allowing introduction of premature beats?**
 - A. AERP**
 - B. VERP**
 - C. AVNERP**
 - D. The effective refractory period**

- 4. Which statement about the AV node location is true?**
 - A. It is located at the apex of the triangle of Koch**
 - B. It is located at the fossa ovalis**
 - C. It is located in the left atrial appendage**
 - D. It lies at the posterior interatrial septum near the pulmonary veins**

- 5. What is the most posterior chamber of the heart?**
 - A. Right atrium**
 - B. Left atrium**
 - C. Right ventricle**
 - D. Left ventricle**

- 6. What is the formula for calculating heart rate from the RR interval in milliseconds?**
- A. $60,000 / RR$**
 - B. $RR / 60,000$**
 - C. $1 / (RR \text{ in seconds})$**
 - D. $60 / RR$**
- 7. What is AVERP?**
- A. The longest S1 S2 interval that fails to result in ventricular depolarization**
 - B. The longest S1 S2 interval that captures the ventricle**
 - C. The shortest S1 S2 interval that fails to result in ventricular depolarization**
 - D. The longest S1 S2 interval that conducts to the ventricle**
- 8. Which interval is defined as the longest S1 S2 interval that fails to result in ventricular depolarization?**
- A. AVERP**
 - B. VERP**
 - C. AERP**
 - D. VAERP**
- 9. The QT interval reflects which sequence of ventricular activity?**
- A. Atrial Activation**
 - B. Ventricular Depolarization And Repolarization**
 - C. AV Nodal Conduction Delay**
 - D. Ventricular Systole Duration**
- 10. The QRS complex on an ECG corresponds to which cardiac event?**
- A. Atrial depolarization**
 - B. Ventricular depolarization**
 - C. Ventricular repolarization**
 - D. Atrial repolarization**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. What are Class I antiarrhythmic drugs?

- A. Sodium Channel Blockers**
- B. Potassium Channel Blockers**
- C. Calcium Channel Blockers**
- D. Beta Blockers**

Class I antiarrhythmic drugs are sodium channel blockers. They bind to fast sodium channels in cardiac cells and reduce the inward Na current during the rapid upstroke of the action potential (phase 0). This slows the rate of depolarization and conduction velocity through atrial and ventricular tissue and the Purkinje system, which helps interrupt and prevent tachyarrhythmias. Their effect can depend on heart rate (use-dependent block), and they're further categorized into subtypes that differ in how much they lengthen or shorten the action potential, but they all share the common feature of blocking fast Na channels. Examples include drugs like quinidine and procainamide (intermediate effects), lidocaine (more effect on inactivated channels), and flecainide or propafenone (strong Na block with marked conduction slowing). Potassium channel blockers, calcium channel blockers, and beta blockers act through different mechanisms and are not Class I.

2. Which brand name corresponds to the reversal agent for benzodiazepines?

- A. Romazicon**
- B. Narcan**
- C. Naloxone**
- D. Protamine**

Reversing benzodiazepines is achieved with flumazenil, brand Romazicon. It works as a competitive antagonist at the benzodiazepine binding site on the GABA-A receptor, effectively blocking the depressive effects of benzodiazepines and reversing sedation and respiratory depression in overdose. This is specific to benzodiazepines, unlike opioids or anticoagulants. Narcan and naloxone reverse opioid toxicity, not benzodiazepine effects, and protamine reverses heparin anticoagulation. Use of Romazicon requires caution because it can precipitate seizures or withdrawal in chronic benzodiazepine users and because its duration can be shorter than the offending benzo, so patients need close monitoring for possible re-sedation.

3. Which refractory period of atrial and ventricular tissue shortens with pacing, allowing introduction of premature beats?

- A. AERP**
- B. VERP**
- C. AVNERP**

D. The effective refractory period

The effective refractory period is the key concept here. After an action potential, this period represents the functional window during which a premature stimulus cannot propagate. As pacing rate increases, the heart's ion channels recover more quickly and repolarization occurs sooner, so the ERP shortens. When the ERP shortens, a premature beat can find tissue that has become excitable again and may propagate, allowing premature atrial or ventricular beats to occur. While there are tissue-specific ERPs (atrial or ventricular) and other refractory terms, the phenomenon described—rate-dependent shortening with pacing—relates to the overall effective refractory period.

4. Which statement about the AV node location is true?

- A. It is located at the apex of the triangle of Koch**
- B. It is located at the fossa ovalis**
- C. It is located in the left atrial appendage**
- D. It lies at the posterior interatrial septum near the pulmonary veins**

The key point is where the AV node sits in the right atrium, specifically within Koch's triangle. This triangle is formed by the tricuspid annulus anteriorly, the tendon of Todaro superiorly, and the coronary sinus ostium posteriorly. The AV node lies in the inferior part of this triangle, at its apex, near the interatrial septum and adjacent to the membranous portion of the septum from which the His bundle emerges. This location explains why manipulation in this area carries risk to AV conduction during procedures. The other structures mentioned are not the AV nodal site: the fossa ovalis is just a septal landmark in the interatrial septum and not where the AV node resides; the left atrial appendage is a left atrial structure with no nodal tissue there; and the posterior interatrial septum near the pulmonary veins is more related to left atrial conduction and atrial arrhythmia triggers, not the AV node location.

5. What is the most posterior chamber of the heart?

- A. Right atrium**
- B. Left atrium**
- C. Right ventricle**
- D. Left ventricle**

The most posterior chamber is the left atrium. The atria sit on the base of the heart, with the right atrium forming much of the right side and anterior surface, while the left atrium lies behind it to form the posterior surface of the heart. The ventricles sit more anteriorly, with the left ventricle contributing to the left border and apex. So, anatomically, the left atrium sits most posteriorly. A practical note: the posterior wall of the left atrium is adjacent to the esophagus, which is relevant for certain imaging techniques.

6. What is the formula for calculating heart rate from the RR interval in milliseconds?

- A. 60,000 / RR**
- B. RR / 60,000**
- C. 1 / (RR in seconds)**
- D. 60 / RR**

The key idea is turning the time between beats into a rate per minute. The heart rate in beats per minute equals how many beats occur in one minute, and the RR interval in milliseconds is the time for one beat. There are 60,000 milliseconds in a minute, so the heart rate is 60,000 divided by the RR interval measured in milliseconds. For example, an RR of 800 ms corresponds to $60,000 / 800 = 75$ bpm, and an RR of 1000 ms corresponds to 60 bpm. If the RR were given in seconds, the formula would be 60 divided by the RR in seconds. The milliseconds form specifically uses $60,000 / RR$.

7. What is AVERP?

- A. The longest S1 S2 interval that fails to result in ventricular depolarization**
- B. The longest S1 S2 interval that captures the ventricle**
- C. The shortest S1 S2 interval that fails to result in ventricular depolarization**
- D. The longest S1 S2 interval that conducts to the ventricle**

AVERP is the ventricle's effective refractory period measured with an atrial Premature Stimulus. In practice, you pace the atrium (S1) and deliver a premature ventricle stimulus (S2) at progressively longer S1-S2 intervals. When S2 is very premature, the ventricle is still refractory and no depolarization occurs. As the interval lengthens, the ventricle recovers and a response may appear. The AVERP is the longest S1-S2 interval that fails to produce a ventricular depolarization. Longer intervals beyond this point will elicit capture. So the correct description is the longest interval that fails to evoke a QRS, not the longest interval that captures or the shortest that fails.

8. Which interval is defined as the longest S1 S2 interval that fails to result in ventricular depolarization?

- A. AVERP**
- B. VERP**
- C. AERP**
- D. VAERP**

The key idea is ventricular refractoriness as measured with extrastimulus testing. You first deliver a train of beats to establish a stable ventricular state, then introduce a premature stimulus (S2) at progressively shorter S1-S2 intervals. The longest interval at which this premature stimulus still fails to produce a ventricular depolarization is the ventricular effective refractory period. This interval marks the end of the tissue's refractory state and, when shorter, indicates the ventricle is capable of conduction. Understanding VERP helps assess arrhythmia susceptibility and guides pacing and ablation strategies.

9. The QT interval reflects which sequence of ventricular activity?

A. Atrial Activation

B. Ventricular Depolarization And Repolarization

C. AV Nodal Conduction Delay

D. Ventricular Systole Duration

The QT interval measures the duration of the ventricles' electrical activity. It starts with the beginning of ventricular depolarization (the start of the QRS complex) and ends with the completion of ventricular repolarization (the end of the T wave). In other words, it covers the whole time the ventricles are activated and then recover electrically. Atrial activation is represented by the P wave, not the QT interval. The AV nodal conduction delay is reflected in the PR interval, not the QT. While the QT interval relates to the electrical cycle that underlies ventricular contraction, it is not a direct measure of mechanical systole; it specifically spans electrical activation and recovery. Prolongation of the QT can indicate risk for certain arrhythmias, and QT duration is often corrected for heart rate (QTc) in practice.

10. The QRS complex on an ECG corresponds to which cardiac event?

A. Atrial depolarization

B. Ventricular depolarization

C. Ventricular repolarization

D. Atrial repolarization

The QRS complex marks ventricular depolarization. When the electrical impulse spreads through the His-Purkinje system into the ventricular muscle, the ventricles depolarize rapidly, producing the sharp, rapid deflections we see as the QRS complex. The P wave represents atrial depolarization, which occurs earlier, and the T wave represents ventricular repolarization that follows. Atrial repolarization does happen during the QRS interval but is hidden by the much larger ventricular depolarization, so it isn't seen as a separate wave.

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://cardiacelectrophysiorces.examzify.com>

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

SAMPLE