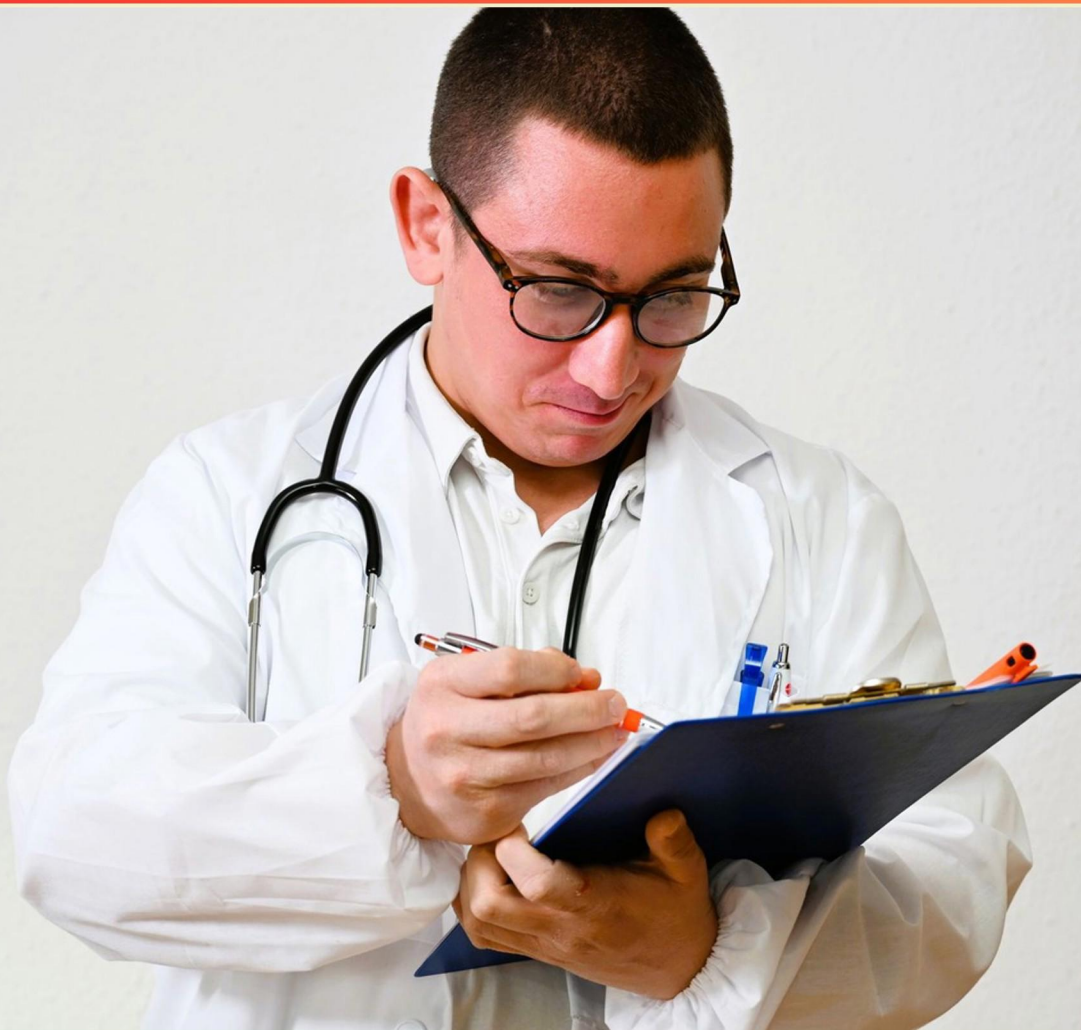


CLEVELAND CLINIC EKG PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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. Reciprocal changes on ECG are most commonly seen in which scenario?**
 - A. Pericarditis
 - B. Atrial fibrillation
 - C. Hyperkalemia
 - D. STEMI

- 2. Should a code be called for ventricular tachycardia?**
 - A. Depends on patient
 - B. Yes
 - C. Only if pulseless
 - D. No

- 3. What finding defines 1st Degree Heart Block?**
 - A. Normal Sinus Rhythm
 - B. Junctional Rhythm
 - C. 1st Degree Heart Block
 - D. 2nd Degree Heart Block Type 1

- 4. Short QT interval is most characteristic of which electrolyte abnormality?**
 - A. Hyperkalemia
 - B. Hypercalcemia
 - C. Hypokalemia
 - D. Hyponatremia

- 5. Three consecutive PVCs forming a short run are called what?**
 - A. PVC couplet
 - B. Trigeminy
 - C. Bigeminy
 - D. PVC triplet

- 6. Which finding represents reciprocal changes in an inferior MI?**
 - A. ST depression in leads I and aVL
 - B. ST elevation in lead aVR
 - C. ST elevation in lead II
 - D. Q waves in V1

7. In third-degree heart block, what is true about PR interval relative to P-P and R-R?

- A. PR not related to P-P or R-R
- B. PR interval consistently prolonged
- C. PR interval normal
- D. PR interval varies

8. ST elevations in leads I, aVL, V5, and V6 indicate infarction in which territory?

- A. Lateral
- B. Anterior
- C. Inferior
- D. Posterior

9. Which pattern localizes STEMI to the anterior wall?

- A. ST elevations in II, III, aVF
- B. ST elevations in I, aVL
- C. ST elevations in V1–V4, often with reciprocal changes in other leads
- D. ST depressions in V1–V3

10. In an anterior STEMI, reciprocal changes are typically seen in which leads?

- A. II, III, and aVF
- B. I and aVL
- C. V7–V9
- D. V4R

Answers

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

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Explanations

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1. Reciprocal changes on ECG are most commonly seen in which scenario?

- A. Pericarditis
- B. Atrial fibrillation
- C. Hyperkalemia
- D. STEMI**

Reciprocal changes reflect the heart's electrical vector during a region of acute transmural injury. In a STEMI, the injured area generates ST elevation in the leads facing that region, while the opposite leads show ST depression due to the opposite direction of the injury current. This pattern is most consistently seen in acute myocardial infarction. For example, an anterior wall STEMI (damage in the front of the heart) typically produces ST elevation in the anterior leads (V1–V4) with reciprocal ST depression in the inferior leads (II, III, aVF). Conversely, an inferior STEMI shows ST elevation in II, III, aVF with reciprocal depression in I and aVL. Pericarditis usually shows diffuse ST elevations with PR depressions, not localized reciprocal changes; hyperkalemia and atrial fibrillation produce different ECG findings. So, the scenario that best explains reciprocal changes is an acute STEMI.

2. Should a code be called for ventricular tachycardia?

- A. Depends on patient
- B. Yes**
- C. Only if pulseless
- D. No

Ventricular tachycardia is a fast, wide-complex rhythm that can rapidly reduce cardiac output and progress to pulseless arrest. Because time matters, activating the code/rapid-response team ensures immediate access to resuscitation resources—defibrillation or synchronized cardioversion if needed, airway and breathing support, and ACLS medications and expert management. Even if the patient currently has a pulse, VT can deteriorate quickly, so prompt code activation minimizes delay and improves the chance of a favorable outcome. In many hospital protocols, this is the default action to take for sustained VT since it guarantees rapid, coordinated care.

3. What finding defines 1st Degree Heart Block?

- A. Normal Sinus Rhythm
- B. Junctional Rhythm
- C. 1st Degree Heart Block**
- D. 2nd Degree Heart Block Type 1

First-degree AV block is defined by slowed conduction through the AV node, which shows up on the ECG as a consistently prolonged PR interval—more than 200 milliseconds—while every atrial impulse still conducts to the ventricles. In other words, there is a P wave before each QRS, the rhythm stays regular, and the QRS complex is normal in width. This combination—PR prolongation without dropped beats—is what sets first-degree block apart. Normal sinus rhythm would have a normal PR interval, so it wouldn't show this delay. A junctional rhythm often has absent or backwards-projected P waves and can have a different relationship between atrial and ventricular activity. A second-degree block Type I (Wenckebach) shows progressively lengthening PR intervals followed by a dropped QRS, not a constant prolonged PR with every beat conducted.

4. Short QT interval is most characteristic of which electrolyte abnormality?

- A. Hyperkalemia
- B. Hypercalcemia**
- C. Hypokalemia
- D. Hyponatremia

Understanding how calcium levels affect the ventricular action potential and QT interval helps explain this finding. The QT interval reflects the time of ventricular repolarization, which is influenced by the plateau phase (phase 2) of the ventricular action potential. When extracellular calcium is elevated, the plateau phase shortens, leading to a shorter overall repolarization time and thus a shorter QT interval on the ECG. This is why hypercalcemia is most characteristic of a short QT interval. In contrast, low calcium (hypocalcemia) prolongs the QT by lengthening the plateau. Hyperkalemia and hyponatremia have different characteristic effects on conduction and morphology (eg, peaked T waves, QRS changes) and do not classically produce a short QT, while hypokalemia tends to prolong the QT.

5. Three consecutive PVCs forming a short run are called what?

- A. PVC couplet
- B. Trigeminy
- C. Bigeminy
- D. PVC triplet**

Three consecutive PVCs in a row form a PVC triplet. The idea is to recognize how premature ventricular contractions group together: two in a row is a couplet, three in a row is a triplet, PVCs every other beat describe bigeminy, and PVCs on every third beat describe trigeminy. A triplet is simply a short run of three consecutive ventricular ectopic beats, distinct from trigeminy (which spreads PVCs out so you see one every third beat) and from bigeminy and a couplet. If that run lasts longer than a brief moment (three or more consecutive PVCs lasting enough to be timed as ventricular tachycardia criteria), it may be referred to as nonsustained ventricular tachycardia.

6. Which finding represents reciprocal changes in an inferior MI?

- A. ST depression in leads I and aVL**
- B. ST elevation in lead aVR
- C. ST elevation in lead II
- D. Q waves in V1

Reciprocal changes are opposite-side ST shifts produced by the same infarct-related vector. In an inferior MI, the injured wall is the inferior wall, so you see ST elevation in the inferior leads (II, III, aVF). The opposite, or reciprocal, changes appear in the leads that "look" at the opposite side of the heart—namely the high-lateral leads I and aVL show ST-segment depression. That depression in I and aVL reflects the opposing current of injury from the inferior infarct. ST elevation in aVR is not the reciprocal pattern for an inferior MI; it can appear with diffuse ischemia or left main/proximal involvement and isn't the classic opposite-lead change. ST elevation in lead II indicates the infarct-related area (the inferior wall) rather than a reciprocal change. Q waves in V1 point to a different region (often septal/anterior) or a prior infarct, not the reciprocal phenomenon.

7. In third-degree heart block, what is true about PR interval relative to P-P and R-R?

- A. PR not related to P-P or R-R**
- B. PR interval consistently prolonged
- C. PR interval normal
- D. PR interval varies

In third-degree AV block there is complete AV dissociation, meaning the atria and ventricles beat independently. Since the atrial impulses do not conduct to the ventricles, the timing from a P wave to the following QRS (the PR interval) has no fixed relationship to the atrial rhythm (P-P) or the ventricular rhythm (R-R). The P-P interval reflects the sinus node rate, and the R-R interval reflects the ventricular escape rhythm, each marching to its own clock. Because of that dissociation, the PR interval can vary and is not predictably tied to either P-P or R-R, making it effectively not related in this block.

8. ST elevations in leads I, aVL, V5, and V6 indicate infarction in which territory?

- A. Lateral**
- B. Anterior
- C. Inferior
- D. Posterior

ST elevations in lateral-facing leads indicate injury to the lateral wall of the left ventricle. The leads I and aVL look at the high lateral surface, while V5 and V6 view the lateral (and sometimes the anterolateral) wall. When these leads are elevated, it points to infarction in that lateral territory, most often due to blockage of the left circumflex artery or its obtuse marginal branches. This pattern contrasts with anterior infarction (V1-V4), inferior infarction (II, III, aVF), or posterior infarction (which often shows reciprocal changes in the anterior leads, with posterior-specific leads sometimes needed).

9. Which pattern localizes STEMI to the anterior wall?

- A. ST elevations in II, III, aVF
- B. ST elevations in I, aVL
- C. ST elevations in V1-V4, often with reciprocal changes in other leads**
- D. ST depressions in V1-V3

Anterior wall STEMI is identified by ST elevations in the anterior precordial leads V1-V4, because these leads view the front surface of the left ventricle supplied mainly by the LAD. Often there are reciprocal ST depressions in the inferior leads (II, III, aVF) reflecting the opposite vector of injury. This pattern localizes the infarct to the anterior wall. In contrast, inferior-wall infarcts show ST elevations in II, III, and aVF; high lateral infarcts show elevations in I and aVL; posterior infarcts produce ST depressions in V1-V3 with reciprocal changes in the anterior leads.

10. In an anterior STEMI, reciprocal changes are typically seen in which leads?

A. II, III, and aVF

B. I and aVL

C. V7–V9

D. V4R

Reciprocal changes arise when the current of injury from an infarct is best seen in opposite leads. In an anterior STEMI, the affected territory is the anterior wall (LAD territory), so ST elevation shows in the anterior-facing leads V1–V4. The opposite wall is the inferior region, which is reflected in leads II, III, and aVF. Those inferior leads often show ST-segment depression—the reciprocal changes of the anterior injury. If you're thinking about other patterns, a posterior MI would show ST elevation in posterior leads (V7–V9) with reciprocal depression in the anterior leads, and right ventricular involvement often involves the right-sided lead V4R rather than being a reciprocal change of the anterior territory.

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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://clevelandclinicekg.examzify.com>

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

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