

KTEST 6 2027 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. Green indicates what percentage in LACE status?

- A. 60-80%
- B. 80-100% of original load
- C. 60-90%
- D. 100-120%

2. What is a PLANORD?

- A. Directs completion of the operation after execution.
- B. A post-operation analysis document.
- C. Directs development of the mission plan before issuing an OPORD.
- D. An informal briefing.

3. Which of the following is a prime number? 15, 21, 29, 33.

- A. 15
- B. 21
- C. 29
- D. 33

4. A dataset consists of the values 2, 4, 4, 4, 6, 9. What is the median of the dataset?

- A. 4
- B. 3
- C. 5
- D. 6

5. In thermodynamics, the first law states $\Delta U = Q - W$. If a system absorbs 3 J of heat and does 5 J of work, what is ΔU ?

- A. 2 J
- B. -2 J
- C. -8 J
- D. 8 J

6. If both parents are carriers for an autosomal recessive trait, what is the probability that their child will be affected?
- A. 50%
 - B. 25%
 - C. 0%
 - D. 75%
7. What determines the resources threatened by UXO?
- A. CBRN contamination
 - B. Target/Resources threatened
 - C. Phonetic alphabet
 - D. Report Activity and Location
8. In economics, what is called a market structure with many buyers and sellers and identical products?
- A. Monopolistic competition
 - B. Oligopoly
 - C. Monopoly
 - D. Perfect competition
9. Which form is used to document medical aid under TCCC?
- A. DD Form 4
 - B. SF 600
 - C. DD 1380 TCCC Card
 - D. DD Form 2870
10. What is Avogadro's number approximately?
- A. 6.022×10^{23}
 - B. 6.022×10^{24}
 - C. 3.011×10^{23}
 - D. 1.204×10^{23}

Answers

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

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Explanations

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1. Green indicates what percentage in LACE status?

- A. 60-80%
- B. 80-100% of original load**
- C. 60-90%
- D. 100-120%

Green indicates you're operating at 80-100% of the original load. This color signals the system is highly utilized but still within its designed capacity, just at the upper end of the safe range. It shows resources are nearly fully used but not yet overcommitted. If the load were below this range, you'd typically see a different color indicating lighter use; if it went above 100%, that would indicate overload or overcapacity. So the green band specifically corresponds to 80-100% of the original load.

2. What is a PLANORD?

- A. Directs completion of the operation after execution.
- B. A post-operation analysis document.
- C. Directs development of the mission plan before issuing an OPORD.**
- D. An informal briefing.

A PLANORD is a planning order that signals the start of formal planning for an operation. It directs the staff to develop the mission plan before issuing the OPORD, setting the timeline, constraints, and intent so the subsequent order can be coherent and ready when the operation is formally tasked. It isn't a post-operation analysis document, which comes after the mission to assess performance, nor is it just an informal briefing. It's specifically about initiating and guiding the planning process ahead of the actual operation order.

3. Which of the following is a prime number? 15, 21, 29, 33.

- A. 15
- B. 21
- C. 29**
- D. 33

A prime number is a number greater than 1 that has exactly two divisors: 1 and itself. To check primality, you only need to test divisibility by primes up to the square root of the number. - 15 has divisors 1, 3, 5, and 15, so it has more than two divisors and isn't prime. - 21 is divisible by 3 and 7, so it's not prime. - 29 is not divisible by 2, 3, or 5. Since the square root of 29 is about 5.38, you only need to check primes up to 5, and none divide 29. Therefore, its only divisors are 1 and 29, so it is prime. - 33 is divisible by 3 and 11, so it isn't prime. Thus, 29 is the prime number.

4. A dataset consists of the values 2, 4, 4, 4, 6, 9. What is the median of the dataset?

- A. 4
- B. 3
- C. 5
- D. 6

Finding the median means ordering the data and, when there are an even number of values, averaging the two middle ones. Here there are six numbers, so the middle positions are the third and fourth entries in the ordered list: 2, 4, 4, 4, 6, 9. The two middle values are 4 and 4, and their average is $(4 + 4) / 2 = 4$. So the median is 4. The other potential values would require different central values, but the central pair here is 4 and 4, so the result is 4.

5. In thermodynamics, the first law states $\Delta U = Q - W$. If a system absorbs 3 J of heat and does 5 J of work, what is ΔU ?

- A. 2 J
- B. -2 J
- C. -8 J
- D. 8 J

The main idea is the first law of thermodynamics, which says $\Delta U = Q - W$. Here, heat added to the system is positive 3 J, and the system does 5 J of work on the surroundings, which is also taken as positive in this convention. Plugging in gives $\Delta U = 3 - 5 = -2$ J. A negative change means the system's internal energy decreases by 2 joules because the energy leaving as work is larger than the energy entering as heat.

6. If both parents are carriers for an autosomal recessive trait, what is the probability that their child will be affected?

- A. 50%
- B. 25%
- C. 0%
- D. 75%

Autosomal recessive inheritance is at play here: two carriers (each with one normal allele and one mutated allele) can have a child who is affected only if the child receives the mutated allele from both parents. Each parent has a $1/2$ chance to pass the mutated allele. Multiply the chances: $1/2 \times 1/2 = 1/4$, which is 25%. So one quarter of their children would be affected. The other possible outcomes are 50% carriers and 25% unaffected, which helps explain why the 25% figure is correct.

7. What determines the resources threatened by UXO?

- A. CBRN contamination
- B. Target/Resources threatened**
- C. Phonetic alphabet
- D. Report Activity and Location

The main idea is that what a UXO can threaten depends on what is around it—the target or resource at risk. The specific area and assets near the unexploded ordnance determine what would be damaged if it detonates: a UXO in a field risks crops, soil, and farmers; one near buildings or people risks lives and property; one by a water source could threaten water quality and ecosystems. The device's design affects how it could explode, but the resources at risk are defined by the surrounding target. The other options don't fit because CBRN contamination is a different hazard category, the phonetic alphabet isn't related to threat assessment, and reporting activity/location concerns information gathering rather than what is threatened.

8. In economics, what is called a market structure with many buyers and sellers and identical products?

- A. Monopolistic competition
- B. Oligopoly
- C. Monopoly
- D. Perfect competition**

Many buyers and sellers with identical products describe a setting where no single participant can influence the price. Everyone faces the same product, so competition happens mainly on price, and firms are price takers rather than price setters. Because the goods are indistinguishable and there are freely entered and exited markets, profits tend to be driven to normal levels in the long run, not above them. This combination—many producers and consumers, homogeneous goods, easy entry and exit, and price-taking behavior—defines perfect competition. Other structures don't fit as well: monopolistic competition has many sellers but differentiated products, giving some pricing power; an oligopoly has only a few firms that can mutually influence each other's prices; a monopoly has a single seller with significant market control.

9. Which form is used to document medical aid under TCCC?

- A. DD Form 4
- B. SF 600
- C. DD 1380 TCCC Card**
- D. DD Form 2870

The form used to document medical aid under Tactical Combat Casualty Care is the DD 1380 TCCC Card. This card is built for field use—compact, durable, and quick to fill in—so medics and corpsmen can record what happened and what care was given in real time as a casualty is treated and moved through evacuation. It captures essential details like the casualty's identity, times of key events, injuries, and the interventions performed (such as tourniquet application, hemostatic dressings, chest seals, airway management, IV access, and medications). This information travels with the patient to ensure the next medical team understands the on-scene care, guides ongoing treatment, and supports after-action reviews and quality improvement. Other forms shown are not designed for battlefield documentation of medical care. For example, a form used for enlistment contracts serves personnel administration; a hospital-style medical record form is meant for clinical settings and isn't practical for the field environment; and unrelated administrative forms don't capture the specific field care data TCCC requires. The DD 1380 TCCC Card is purpose-built to document Tactical Combat Casualty Care precisely where and when it's happening.

10. What is Avogadro's number approximately?

A. 6.022×10^{23}

B. 6.022×10^{24}

C. 3.011×10^{23}

D. 1.204×10^{23}

Avogadro's number is the amount of particles in one mole, the bridge between microscopic particles and macroscopic amounts. It is approximately 6.022×10^{23} particles per mole, so this constant lets you count atoms or molecules by weighing them. That value is used universally because a mole contains that many discrete entities, making it possible to convert between moles and numbers of particles in calculations. The other numbers differ in either the exponent or the digits, so they don't match the established magnitude of how many particles are in a mole. For reference, the exact value defined now is $6.02214076 \times 10^{23} \text{ mol}^{-1}$, but 6.022×10^{23} is the common approximation.

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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://ktest6.examzify.com>

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

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