

Dive Master Practice Exam (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. What can a long, forceful equalization lead to?**
 - A. Excessive buoyancy**
 - B. Severe headache**
 - C. Middle ear squeeze**
 - D. Eardrum rupture**
- 2. What is the no decompression limit for a dive to 19 m/62 ft?**
 - A. 30 minutes**
 - B. 45 minutes**
 - C. 60 minutes**
 - D. 75 minutes**
- 3. What does carbon monoxide bond with more readily than oxygen?**
 - A. alveoli**
 - B. bronchi**
 - C. hemoglobin**
 - D. bicarbonate**
- 4. What is the purpose of voluntary hyperventilation before a dive?**
 - A. To increase oxygen levels in the lungs**
 - B. To decrease carbon dioxide levels in the lungs**
 - C. To expand lung capacity**
 - D. To reduce nitrogen absorption**
- 5. Which of the following statements about gases dissolving in liquids is correct?**
 - A. Gases will always dissolve regardless of conditions**
 - B. Pressure increases gas solubility**
 - C. Warm temperatures enhance gas dissolution**
 - D. Only inert gases can dissolve in liquids**

6. If a diver experiences a "wet" breathing regulator, what is a likely cause?

- A. An exhaust valve that doesn't seal**
- B. A damaged mouthpiece**
- C. An open downstream valve**
- D. Both a and b**

7. What type of current results when waves approach the shore at an angle?

- A. Rip current**
- B. Upwelling**
- C. Longshore current**
- D. Tidal current**

8. True or False: Divers must confirm the oxygen percentage in enriched air cylinders before setting their dive computers.

- A. True**
- B. False**
- C. Only if diving deep**
- D. Not necessary**

9. An invasive species introduced into an ecosystem often has no natural enemies, allowing it to multiply rapidly. True or False?

- A. True**
- B. False**

10. What type of action occurs with the movement of warmer water replacing cooler water?

- A. Convection**
- B. Conduction**
- C. Radiation**
- D. Insulation**

Answers

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

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Explanations

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1. What can a long, forceful equalization lead to?

- A. Excessive buoyancy
- B. Severe headache
- C. Middle ear squeeze
- D. Eardrum rupture**

A long, forceful equalization can lead to eardrum rupture due to the significant pressure change that occurs in the middle ear. Equalization involves balancing the pressure in the middle ear with the pressure of the surrounding water as a diver descends. If this process is performed too forcefully, it can create excessive pressure that the eardrum cannot withstand. The eardrum, or tympanic membrane, is only a thin barrier that separates the outer ear from the middle ear. When the pressure difference becomes too great because of overly aggressive equalization attempts, it may exceed the safe tolerance level of the eardrum, resulting in a rupture. This condition can lead to pain, hearing loss, and potential ear infections. In contrast, excessive buoyancy might concern a diver when they need to control their ascent or descent but is not directly related to the mechanics of equalization. Severe headaches could arise from various diving-related issues, such as the bends or dehydration, rather than from the act of equalizing itself. Middle ear squeeze is a condition that can occur when a diver descends without equalizing properly, rather than as a direct result of forceful equalization. Thus, the correct answer underscores the potential dangers of improperly managing equalization.

2. What is the no decompression limit for a dive to 19 m/62 ft?

- A. 30 minutes
- B. 45 minutes**
- C. 60 minutes
- D. 75 minutes

The no decompression limit (NDL) is the maximum time a diver can spend at a certain depth without needing to perform mandatory decompression stops during ascent. For a dive to 19 meters (62 feet), the NDL is established based on factors such as the specific depth, dive tables, and algorithms used in dive computers. At a depth of 19 meters, divers typically have a no decompression limit of approximately 45 minutes. This allows a diver sufficient time to explore the underwater environment while ensuring safety, as remaining longer would necessitate decompression stops to avoid decompression sickness, commonly known as "the bends." Understanding the no decompression limit is crucial for divers to manage their dive times safely. If they exceed this limit, they would be at risk for decompression sickness, which necessitates careful planning and adherence to dive tables or computer recommendations.

3. What does carbon monoxide bond with more readily than oxygen?

- A. alveoli**
- B. bronchi**
- C. hemoglobin**
- D. bicarbonate**

Carbon monoxide has a high affinity for hemoglobin, which is the protein in red blood cells responsible for transporting oxygen throughout the body. When inhaled, carbon monoxide can bind to hemoglobin over 200 times more readily than oxygen. This binding prevents hemoglobin from carrying oxygen, leading to reduced oxygen delivery to tissues and potential carbon monoxide poisoning. Understanding the mechanics of carbon monoxide's interaction with hemoglobin is crucial in contexts such as diving and emergency response, as it highlights the critical importance of monitoring and mitigating the effects of this gas in various environments, including those related to diving. The other choices, while relevant to respiratory and circulatory functions, do not involve the specific binding properties that characterize the interaction between carbon monoxide and hemoglobin.

4. What is the purpose of voluntary hyperventilation before a dive?

- A. To increase oxygen levels in the lungs**
- B. To decrease carbon dioxide levels in the lungs**
- C. To expand lung capacity**
- D. To reduce nitrogen absorption**

Voluntary hyperventilation before a dive serves primarily to decrease carbon dioxide levels in the lungs. This technique involves breathing more rapidly and deeply than normal, which reduces the concentration of carbon dioxide in the bloodstream. A lower level of carbon dioxide can lead to a delayed urge to breathe, allowing a diver to stay underwater for a longer period before feeling the need to ascend for air. Understanding carbon dioxide's role is crucial; it is a byproduct of metabolism that triggers the respiratory drive. When its levels are lowered through hyperventilation, divers may experience a false sense of increased breath-holding capacity, which can lead to risks such as shallow water blackout if they are not cautious. While other options mention increasing oxygen levels or expanding lung capacity, they don't accurately reflect the primary biological effect of hyperventilation. It's not about hunting for more oxygen; it's about managing carbon dioxide levels, which has direct implications for a diver's safety and performance underwater.

5. Which of the following statements about gases dissolving in liquids is correct?

- A. Gases will always dissolve regardless of conditions**
- B. Pressure increases gas solubility**
- C. Warm temperatures enhance gas dissolution**
- D. Only inert gases can dissolve in liquids**

The statement that pressure increases gas solubility is correct and is based on Henry's Law, which states that the amount of gas that dissolves in a liquid at a given temperature is directly proportional to the pressure of that gas in equilibrium with the liquid. This means that as the pressure exerted by the gas above a liquid increases, more of that gas will dissolve into the liquid. This principle is particularly crucial in scuba diving, where increased pressure underwater allows greater amounts of gases, such as oxygen and nitrogen, to be dissolved in a diver's bloodstream. Other statements do not hold true in the same way. For instance, while gases can dissolve in liquids under various conditions, saying they will always dissolve regardless of conditions is misleading, as solubility can be affected by temperature and pressure, among other factors. Additionally, warm temperatures typically decrease the solubility of gases in liquids because warmer liquids have increased kinetic energy, leading to more gas molecules escaping back into the air rather than remaining dissolved. Lastly, while inert gases can dissolve in liquids, they are not the only gases that can do so; many reactive gases, like oxygen and carbon dioxide, also dissolve in liquids effectively.

6. If a diver experiences a "wet" breathing regulator, what is a likely cause?

- A. An exhaust valve that doesn't seal**
- B. A damaged mouthpiece**
- C. An open downstream valve**
- D. Both a and b**

When a diver experiences a "wet" breathing regulator, one likely cause is an exhaust valve that doesn't seal properly. The exhaust valve is responsible for allowing exhaled air to exit the regulator while preventing water from entering. If this valve is damaged, worn, or improperly seated, water can seep into the breathing chamber, leading to a sensation of breathing in water, or a "wet" regulator. While a damaged mouthpiece can also contribute to discomfort and may allow slight amounts of water entry, its primary function is to interface with the diver's mouth, not to control the flow of air or water. An open downstream valve does not directly relate, as it refers to how the regulator controls airflow rather than preventing water entry. Therefore, the most relevant cause for a "wet" regulator sensation stems from the exhaust valve malfunction.

7. What type of current results when waves approach the shore at an angle?

- A. Rip current**
- B. Upwelling**
- C. Longshore current**
- D. Tidal current**

When waves approach the shore at an angle, they create a longshore current. This phenomenon occurs due to the swash and backwash of waves. As waves break at an angle to the shore, they push water and sediment laterally along the coastline, generating a current that moves parallel to the shore. This movement can transport sand, affecting beach shape and ecosystem dynamics. In contrast, rip currents are powerful, narrow channels of water that flow away from the shore, typically forming where waves break at different angles, causing a concentrated outflow of water. Upwelling refers to the movement of deep, cold, nutrient-rich water to the surface, usually occurring in areas of divergence, rather than in relation to wave direction. Tidal currents are caused by the gravitational pull of the moon and sun, leading to variations in water flow during tidal changes, which is separate from wave action. Thus, longshore currents are specifically tied to the angles at which waves approach the shore, making it the correct choice in this context.

8. True or False: Divers must confirm the oxygen percentage in enriched air cylinders before setting their dive computers.

- A. True**
- B. False**
- C. Only if diving deep**
- D. Not necessary**

The assertion that divers must confirm the oxygen percentage in enriched air cylinders before setting their dive computers is indeed false. While it is recommended to be aware of the oxygen content, particularly when diving with enriched air (also known as nitrox), it is not a strict requirement prior to setting the dive computer. The dive computer is typically set based on the specific blend of gas being used for the dive. If divers use a specific nitrox mix, it is crucial for them to calibrate their dive computer to the correct oxygen percentage to ensure proper calculations for no-decompression limits and other safety parameters. However, in practice, many divers will verify this information during their pre-dive checks and preparations. The key takeaway is that while confirming the oxygen percentage is a good practice and enhances safety by allowing proper dive planning, it isn't mandatory as a rule for setting the dive computer, allowing flexibility in diver preparation as long as the divers remain aware of their gas mix before the dive.

9. An invasive species introduced into an ecosystem often has no natural enemies, allowing it to multiply rapidly. True or False?

A. True

B. False

An invasive species is indeed often introduced into an ecosystem where it lacks natural predators or competitors that would typically keep its population in check. As a result, these species can exploit available resources more effectively, reproduce rapidly, and establish themselves within the new environment. This unchecked growth can lead to significant ecological disruptions, such as outcompeting native species for food and habitat, altering ecosystem processes, and sometimes leading to the decline or extinction of local species. The dynamic of invaders flourishing in new habitats without their natural enemies highlights the critical balance that existing species maintain within ecosystems. In a nutshell, the rapid multiplication of these introduced species stems from the absence of their usual regulatory mechanisms, making the statement true.

10. What type of action occurs with the movement of warmer water replacing cooler water?

A. Convection

B. Conduction

C. Radiation

D. Insulation

The movement of warmer water replacing cooler water is best described as convection. Convection is a process that involves the transfer of heat through fluids, such as liquids or gases, due to the movement of the fluid itself. When water is heated, it becomes less dense and rises, while the cooler, denser water sinks. This creates a circulation pattern that effectively transfers heat throughout the body of water, allowing for the mixing of warmer and cooler areas. This process is significant in various natural and artificial systems, such as ocean currents, atmospheric conditions, and in heating systems. Understanding convection is crucial for divers and dive masters, as it affects water temperature and, in turn, marine life behavior and dive conditions. Conduction, on the other hand, involves direct heat transfer through materials without the movement of the material itself, and radiation refers to heat transfer through electromagnetic waves. Insulation is a method to prevent heat loss but does not relate to the movement of water. Recognizing the correct process of convection allows for a better grasp of underwater dynamics and environmental factors crucial for diving activities.

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://divemaster.examzify.com>

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

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