

BIOHORIZONS PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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

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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 was a significant development by Biohorizons in 2003?**
 - A. Two piece implant
 - B. Maximus one piece 3.0 implant
 - C. Revolutionary bone grafting material
 - D. New dental adhesive
- 2. What type of thread design is used in one piece 3.0 implants for overdentures?**
 - A. Round
 - B. Square
 - C. Triangular
 - D. Flat
- 3. Laser lok microchannels are designed to create what type of attachment?**
 - A. Biochemical attachment
 - B. Physical attachment
 - C. Elastic attachment
 - D. Chemical bonding
- 4. What are bioactive materials designed to do in the context of implant dentistry?**
 - A. Prevent integration with biological tissues
 - B. Promote healing and integration with biological tissues
 - C. Act only as a surface coating
 - D. Enhance aesthetic appearance exclusively
- 5. What is the purpose of using biomaterials in implantology?**
 - A. To enhance the financial success of treatment
 - B. To enhance healing and integration with bone
 - C. To replace dental implants
 - D. To expedite the dental procedure

- 6. What degree is the deep conical connection of tapered pro conical implants?**
- A. 5.5 degrees
 - B. 7 degrees
 - C. 7.5 degrees
 - D. 9 degrees
- 7. What was an advantage of internal hex connections over external hex in dental implants?**
- A. Lower production costs
 - B. Wider compatibility with implant tools
 - C. Ability to withstand greater forces
 - D. Deeper connection depth
- 8. Which implant diameter is yellow?**
- A. 5 mm
 - B. 6 mm
 - C. 3.5 mm
 - D. 4 mm
- 9. How much more shear force can a V thread transmit compared to a square thread?**
- A. 2x
 - B. 5x
 - C. 10x
 - D. 15x
- 10. How does smoking affect implant success rates?**
- A. It has no impact on success rates
 - B. It improves success rates due to increased blood flow
 - C. It is associated with lower success rates due to impaired healing
 - D. It guarantees higher success rates

Answers

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

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Explanations

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1. What was a significant development by Biohorizons in 2003?

- A. Two piece implant
- B. Maximus one piece 3.0 implant**
- C. Revolutionary bone grafting material
- D. New dental adhesive

The significant development by Biohorizons in 2003 was the introduction of the Maximus one piece 3.0 implant. This innovation marked a notable advancement in implant technology, offering unique benefits such as a streamlined design that enhances both the surgical and restorative processes. The one-piece design simplifies the implant placement procedure, reduces the number of components involved, and can lead to improved stability and esthetics over traditional multi-part systems. Furthermore, the 3.0 designation indicates a specific platform size that allows for particular applications in dental restoration, catering to various clinical scenarios. This development reflects Biohorizons' commitment to innovation in implant dentistry and underscores their efforts to provide solutions that meet the evolving needs of dental professionals and their patients. Other options, while potentially significant in their own right, did not mark a milestone specifically attributed to 2003 in the context of Biohorizons' advancements.

2. What type of thread design is used in one piece 3.0 implants for overdentures?

- A. Round
- B. Square**
- C. Triangular
- D. Flat

The use of square thread design in one piece 3.0 implants for overdentures is particularly beneficial due to its enhanced stability and improved initial mechanical retention in the bone. This design allows for better distribution of load and reduces the risk of micro-movements during the integration process. Square threads provide a larger surface area for contact with the bone, which is essential for implants that will support the functional and esthetic demands of overdentures. In the context of overdenture applications, the square thread helps to ensure that these types of implants can handle the forces experienced from chewing and other functional movements more effectively than other thread designs. The geometry of the thread plays a crucial role in how the implant interacts with the surrounding bone, promoting osseointegration and ensuring longevity and success of the overdenture treatment.

3. Laser lok microchannels are designed to create what type of attachment?

- A. Biochemical attachment
- B. Physical attachment**
- C. Elastic attachment
- D. Chemical bonding

Laser Lok microchannels are specifically designed to promote physical attachment between dental implants and the surrounding soft tissue. These microchannels create a conducive environment that allows for the mechanical interlocking of tissue with the implant surface. This interlocking is crucial as it supports tissue integration and enhances stability and healing around the implant. Physical attachment differs from other types of attachment, such as biochemical or chemical bonding, which typically involve molecular interactions or biochemical processes. The design of the Laser Lok microchannels facilitates a straightforward physical mechanism of attachment, leading to improved long-term outcomes such as tissue retention and health. Understanding the properties of physical attachment is vital for dental professionals as it directly impacts the success of implants and overall patient satisfaction.

4. What are bioactive materials designed to do in the context of implant dentistry?

- A. Prevent integration with biological tissues
- B. Promote healing and integration with biological tissues**
- C. Act only as a surface coating
- D. Enhance aesthetic appearance exclusively

Bioactive materials are specifically designed to interact positively with biological tissues to promote healing and facilitate integration with the surrounding biological environment. In implant dentistry, these materials are instrumental in supporting osseointegration, which is the process by which the implant adheres and becomes integrated with the bone. This integration is critical for the long-term success and stability of dental implants, as it provides the necessary biomechanical support when the implant is subjected to the forces of occlusion. The effectiveness of bioactive materials lies in their ability to mimic natural tissue characteristics, encouraging cellular activities such as proliferation, differentiation, and mineralization at the interface between the implant and bone. This property helps minimize the risk of implant failure and enhances the overall success of dental rehabilitation procedures. By focusing on promoting healing and integration rather than inhibiting it or serving a purely aesthetic purpose, bioactive materials play a crucial role in ensuring that dental implants function effectively and harmoniously within the biological system of the patient.

5. What is the purpose of using biomaterials in implantology?

- A. To enhance the financial success of treatment
- B. To enhance healing and integration with bone**
- C. To replace dental implants
- D. To expedite the dental procedure

The use of biomaterials in implantology primarily focuses on enhancing healing and integration with bone. Biomaterials are designed to be biocompatible, which means they can safely interact with biological tissue without eliciting an adverse reaction. When a dental implant is placed, the goal is for the surrounding bone to properly integrate with the implant, a process known as osseointegration. This integration is crucial for the stability and longevity of the implant. Biomaterials support this process by providing a suitable environment for bone cells to attach and proliferate, thus facilitating the healing process and ultimately leading to a successful outcome of the dental implant procedure. Their properties can include promoting bone growth, allowing for a good seal around the implant, and being chemically similar to the natural bone, which all contribute to effective integration and improved success rates for implants.

6. What degree is the deep conical connection of tapered pro conical implants?

- A. 5.5 degrees
- B. 7 degrees
- C. 7.5 degrees**
- D. 9 degrees

The correct degree for the deep conical connection of tapered pro conical implants is 7.5 degrees. This specific angle is significant because it facilitates an ideal fit and stability for the implant, contributing to the long-term success of the dental restoration. The choice of 7.5 degrees enables effective load distribution and enhances the mechanical stability of the implant system. This angle is also designed to help with better adaptation to the surrounding bone, thus improving osseointegration, which is essential for the longevity and functionality of the implant. It is important to recognize that while the other degree options represent varying angles, they do not align with the design and function requirements that the 7.5-degree connection provides within the context of tapered pro conical implants.

7. What was an advantage of internal hex connections over external hex in dental implants?

- A. Lower production costs
- B. Wider compatibility with implant tools
- C. Ability to withstand greater forces
- D. Deeper connection depth**

The advantage of internal hex connections over external hex connections in dental implants lies in their design, which allows for a deeper connection depth. This deeper connection enhances the stability and retention of the abutment to the implant. A deeper interface between the implant and the abutment can provide improved mechanical stability, reducing the risk of micro-movement and increasing the overall strength of the assembly. This feature is particularly beneficial as it minimizes the potential for screw loosening and loss of retention over time, which can be a concern with shallower connections. Additionally, the deeper connection helps in distributing forces more evenly during mastication, contributing to the longevity and success of the implant. The internal hex design also allows for a more streamlined and compact profile, often resulting in better aesthetics and making it easier to place in various anatomical situations. In summary, the internal hex connection's deeper engagement with the implant leads to enhanced mechanical stability and improved resistance to generated forces, promoting long-term success in dental restoration.

8. Which implant diameter is yellow?

- A. 5 mm
- B. 6 mm
- C. 3.5 mm**
- D. 4 mm

The yellow color coding for implant diameters is specifically associated with the 3.5 mm diameter implant. In dental implant systems, such color coding helps clinicians quickly and easily identify the size of the implants they are working with, thus promoting efficiency and reducing the likelihood of errors during the selection process. It's important to adhere to these color codes as they represent specific dimensions that are crucial for proper fitting and healing. Other diameters, such as 5 mm, 6 mm, and 4 mm, have their own distinguishing colors, which helps professionals navigate these options without confusion. Understanding this color coding system is fundamental for successful implant placement and management in clinical practice.

9. How much more shear force can a V thread transmit compared to a square thread?

- A. 2x
- B. 5x
- C. 10x**
- D. 15x

The reason the selection of 10x for the comparison between the shear force transmitted by a V thread and a square thread is correct lies in the geometry and loading characteristics of these thread types. V threads, characterized by their angled sides, have a more effective load distribution along the thread flanks compared to the flat surfaces of square threads. This angled profile allows V threads to engage with greater contact area when loaded, which enhances their shear strength. The increased effective area means that V threads can typically handle much higher shear forces due to the inherent mechanical advantages of their shape. In addition to the geometry, the efficiency of the V thread under load means that it can distribute forces in a manner that reduces the onset of failure points significantly better than a square thread. The 10x factor often cited reflects experimental data and practical observations that demonstrate how V threads outperform square threads under similar conditions. As for the other options, they either underestimate or overestimate the performance difference based on traditional mechanical principles of thread designs. Therefore, focusing on the load characteristics and the geometry of the threads, it is established that V threads can transmit significantly more shear force compared to square threads, aligning with the 10x superiority indicated in the correct answer.

10. How does smoking affect implant success rates?

- A. It has no impact on success rates
- B. It improves success rates due to increased blood flow
- C. It is associated with lower success rates due to impaired healing**
- D. It guarantees higher success rates

Smoking negatively influences implant success rates primarily due to its detrimental effects on healing and the overall biological response to implants. Smokers often experience impaired blood flow, which is crucial for the healing process around dental implants. Nicotine restricts blood vessels, reducing oxygen and nutrient delivery essential for tissue regeneration and integration with the implant. This compromised healing environment can lead to increased rates of implant failure, peri-implantitis, and other complications. Furthermore, smoking is associated with a higher risk of infections and a slower healing process, both of which are critical factors in the osseointegration of dental implants. By impacting the body's inflammatory response and the regeneration of bone and soft tissues, smoking creates a less favorable condition for the placement and longevity of dental implants. Therefore, the assertion that smoking is linked to lower success rates due to these impaired healing processes is well-supported by clinical evidence and biological understanding.

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://biohorizons.examzify.com>

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

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