

Spriggs Essentials Sleep Technicians 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 is essential for ensuring the integrity of signal derivations in a sleep study?**
 - A. Establish certain scoring references for the sleep study**
 - B. Verify signal derivations for each channel**
 - C. Confirm the integrity of the signals**
 - D. All of the above**
- 2. Which of these electrode sites is not typically used in a baseline montage?**
 - A. Leg EMG**
 - B. E2**
 - C. Arm EMG**
 - D. Thoracic belt**
- 3. What is a characteristic of slow-frequency artifact appearing in an EEG channel?**
 - A. It may impair the accuracy of the recording**
 - B. It may appear similar to EEG slow waves**
 - C. It may be identified by a lack of correlation to EEG or EOG channels**
 - D. All of the above**
- 4. The symbol "G1" in polysomnography represents what?**
 - A. The exploring electrode**
 - B. The reference electrode**
 - C. The patient ground**
 - D. The output of a differential amplifier**
- 5. A change in sensitivity produces a change in the?**
 - A. Voltage of the incoming signal**
 - B. Frequency of the wave**
 - C. Height of the wave**
 - D. Color of the wave**

6. If the measured distance from the nasion to the inion is 32 cm, what is the distance from the inion to Oz?

- A. 1.6 cm
- B. 3.2 cm
- C. 6.4 cm
- D. 16 cm

7. What does an increase in the low-frequency filter setting likely affect?

- A. Data collection quality
- B. Signal integrity
- C. Amplitude sensitivity
- D. Waveform visibility

8. The measured distance from pre-auricular to pre-auricular is 40 cm. What is the distance from Cz to C3?

- A. 2.0 cm
- B. 4.0 cm
- C. 8.0 cm
- D. 10 cm

9. Which measurement is affected by the impedance of the skin?

- A. Electromagnetic interference
- B. Electrode voltage
- C. Ambient light interference
- D. Signal amplification

10. Which of the following is a common symptom of sleep apnea?

- A. Difficulty falling asleep
- B. Excessive daytime sleepiness
- C. Increased energy levels at night
- D. Consistent restful sleep

Answers

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

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Explanations

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1. What is essential for ensuring the integrity of signal derivations in a sleep study?

- A. Establish certain scoring references for the sleep study**
- B. Verify signal derivations for each channel**
- C. Confirm the integrity of the signals**
- D. All of the above**

Ensuring the integrity of signal derivations in a sleep study is critical for accurate interpretation and diagnosis. To achieve this, a comprehensive approach is taken, which includes establishing scoring references, verifying signal derivations for each channel, and confirming the integrity of the signals. Establishing scoring references provides a standardized framework to interpret the signals collected during the study. These references help technicians and clinicians consistently identify sleep stages and any abnormalities present in the data. Verifying signal derivations for each channel ensures that the correct physiological signals are being recorded. Each channel must accurately reflect body functions, such as brain activity, heart rate, and breathing patterns, to create a reliable dataset for analysis. Confirming the integrity of the signals is essential to ensure that the data is free from artifacts or interference that could lead to misinterpretation. This step involves checking for quality issues or equipment malfunctions that may compromise the results. Collectively, these actions are vital for maintaining the reliability and accuracy of sleep study results, making it clear that the integration of all these aspects is fundamental to the integrity of the study. Thus, selecting the comprehensive option captures the necessary elements for ensuring precise and dependable signal derivations in the context of sleep studies.

2. Which of these electrode sites is not typically used in a baseline montage?

- A. Leg EMG**
- B. E2**
- C. Arm EMG**
- D. Thoracic belt**

In a baseline montage, the goal is to establish a standard reference for monitoring brain activity, typically focusing on the scalp and other areas directly related to sleep studies. The electrodes generally used in this context are primarily concerned with measuring electrical activity of the brain, as well as some physiological metrics. Arm EMG, while it is used to detect muscle movements and can be part of a comprehensive sleep study to capture artifacts or movements, is not included in the baseline montage. Baseline montages typically emphasize brainwave activity using cranial electrodes and may incorporate other physiological monitors like E2 for respiratory patterns, Leg EMG for leg movements, or thoracic belts to track respiratory effort. This delineation indicates that arm EMG is ancillary rather than fundamental to establishing a baseline of brain electrical activity, making it the electrode site not conventionally part of a baseline montage.

3. What is a characteristic of slow-frequency artifact appearing in an EEG channel?

- A. It may impair the accuracy of the recording
- B. It may appear similar to EEG slow waves
- C. It may be identified by a lack of correlation to EEG or EOG channels
- D. All of the above**

A characteristic of slow-frequency artifact in an EEG channel is multifaceted, and the correct response emphasizes that all presented points contribute to understanding this phenomenon. Slow-frequency artifacts can significantly impair the accuracy of the EEG recording because they can mask or blend with actual brain wave activity, leading to misinterpretation of neurological events. Additionally, these artifacts often resemble normal slow waves that are genuinely produced by the brain in certain states, such as sleep, which adds to the challenge of distinguishing them from legitimate signals. Furthermore, identifying slow-frequency artifacts often involves recognizing their lack of correlation with signals from other channels, such as EEG or EOG. This characteristic is critical for technicians to determine which patterns are artifacts versus actual brain activity. The ability to recognize discrepancies between channels is vital in diagnosing and interpreting EEG results effectively. The collective nature of these characteristics solidifies the understanding that slow-frequency artifacts influence EEG recordings on multiple levels, hence why all points support the choice that encompasses them. This comprehensive view of slow-frequency artifacts aids technicians in minimizing their impact during EEG analysis and ensuring more accurate interpretations of neurological function.

4. The symbol "G1" in polysomnography represents what?

- A. The exploring electrode**
- B. The reference electrode
- C. The patient ground
- D. The output of a differential amplifier

In polysomnography, the symbol "G1" typically represents an exploring electrode, which is used to monitor and detect brain wave activity by picking up electrical signals from the scalp. This electrode is placed on the patient's head and is essential for recording specific brain regions during sleep studies. The exploring electrode helps provide valuable data for analyzing sleep stages, detecting sleep disorders, and understanding the overall brain function during sleep. In the context of polysomnography, other options refer to different components or functions in the monitoring setup. The reference electrode is usually paired with the exploring electrode to help reduce noise and improve the quality of the recorded signals. The patient ground serves to minimize electrical interference and ensure stable recordings, while the output of a differential amplifier refers to the processed signal produced by amplifying the difference between the signals from two electrodes, which is crucial for accurate readings in neurophysiological studies. However, "G1" directly signifies the specific role of an exploring electrode in capturing the brain's electrical activity.

5. A change in sensitivity produces a change in the?

- A. Voltage of the incoming signal
- B. Frequency of the wave
- C. Height of the wave**
- D. Color of the wave

A change in sensitivity in the context of sleep technician practices typically refers to how responsive a sensor or measurement device is to incoming signals. When sensitivity changes, it directly impacts the amplitude of the wave being detected. Increased sensitivity amplifies the signal, resulting in a greater height of the wave, which represents a stronger or more pronounced response to the stimulus. Understanding the nature of waves, height (or amplitude) is a fundamental characteristic that indicates the strength of the signal being measured. If sensitivity is increased, even small changes in the incoming signal can produce larger deviations in the height of the resulting wave. Conversely, if sensitivity is reduced, the same incoming signal might produce a smaller wave height, showing less change in response. Voltage, frequency, and color are characteristics of a signal that may not be directly related to sensitivity adjustments in the same way. Voltage relates more to the absolute strength of a signal rather than how much it responds to changes in amplitude or the sensitivity settings of the equipment. Frequency indicates the rate of oscillation and is not directly controlled by sensitivity. Color, typically related to light waves, does not apply in the same context as sensitivity changes within the realm of sleep studies. Therefore, height of the wave is the correct understanding in relation to changes in

6. If the measured distance from the nasion to the inion is 32 cm, what is the distance from the inion to Oz?

- A. 1.6 cm
- B. 3.2 cm**
- C. 6.4 cm
- D. 16 cm

The correct answer is based on understanding cranial anatomy and the standard measurements used in sleep studies or neuromonitoring. The nasion is the bridge of the nose, and the inion is the external occipital protuberance at the back of the skull. Oz refers to the midline occipital electrode site found in the 10-20 system of electrode placement, which is a standard system used for electroencephalography (EEG) and other neurophysiological measures. In the 10-20 system, the distance from the nasion to the inion is typically divided into segments to determine the placement of electrodes. A useful reference point commonly used in cranial measurements is that the distance from the inion to Oz is approximately 20% of the total distance from nasion to inion. If the measured distance from nasion to inion is 32 cm, calculating 20% of this distance results in approximately 6.4 cm ($0.20 \times 32 \text{ cm} = 6.4 \text{ cm}$). This is the accepted value for the distance from the inion to Oz, making it the correct choice in this context. Thus, knowing the proportions used in cranial measurements helps clarify why this

7. What does an increase in the low-frequency filter setting likely affect?

- A. Data collection quality**
- B. Signal integrity**
- C. Amplitude sensitivity**
- D. Waveform visibility**

An increase in the low-frequency filter setting primarily affects data collection quality by allowing lower frequency signals to be attenuated or filtered out, which can lead to a loss of essential components of the signal being recorded. In sleep studies, these low-frequency signals often include important physiological rhythms, such as heart rate variability or certain brain wave activities, that are crucial for accurate analysis. By raising the low-frequency filter setting, you might inadvertently eliminate these important signals, resulting in data that does not accurately reflect the true state of the subject being monitored. Maintaining an appropriate low-frequency filter setting is vital for preserving the integrity of the collected data, ensuring that all vital sign fluctuations relevant to the analysis remain intact. Properly setting this filter enhances the quality of the recorded signals, providing clearer insights into the physiological processes during sleep.

8. The measured distance from pre-auricular to pre-auricular is 40 cm. What is the distance from Cz to C3?

- A. 2.0 cm**
- B. 4.0 cm**
- C. 8.0 cm**
- D. 10 cm**

To determine the distance from Cz to C3 based on the measured distance from pre-auricular to pre-auricular being 40 cm, it's essential to understand the International 10-20 system of EEG electrode placement. This system provides a standardized way to position electrodes on the scalp relative to specific anatomical landmarks. In this system, the distance between the pre-auricular points (these are the points located in front of the ears) corresponds to a defined measurement. The points Cz (the central midline electrode) and C3 (the electrode located on the left side of the scalp) are positioned relative to these predetermined landmarks. The distance from Cz to C3 is derived from the overall measurement. With the total distance from pre-auricular to pre-auricular being 40 cm, the distance between the midline (Cz) and the left side (C3) is approximately 10% of that distance, considering there are generally two regions spanning from the midline to each ear. This places the distance from Cz to C3 at about 4 cm, ultimately leading to a more accurate interpretation of the measurement data derived from the standard. Through this understanding, it's clear that the value of 8.

9. Which measurement is affected by the impedance of the skin?

- A. Electromagnetic interference**
- B. Electrode voltage**
- C. Ambient light interference**
- D. Signal amplification**

The measurement affected by the impedance of the skin is electrode voltage. When electrodes are placed on the skin to measure electrical signals, such as those in an EEG or an EKG, the impedance, or resistance, of the skin can influence the voltage that is detected by the electrodes. High skin impedance can lead to poor signal quality and reduced voltage readings, while lower impedance can enhance the clarity and strength of the signal. For instance, if the skin is not properly prepared or if the electrode material does not have good conductivity, this can increase impedance, leading to weaker signals that may be more prone to noise and interference. Therefore, managing skin impedance is critical to obtaining accurate and reliable measurements in sleep studies and other medical tests. Other choices, while related to the overall context of signal integrity, do not directly relate to how skin impedance affects voltage measurements specifically. Electromagnetic interference and ambient light interference pertain to external noise influences, while signal amplification refers to the process of increasing signal strength rather than being directly affected by skin impedance.

10. Which of the following is a common symptom of sleep apnea?

- A. Difficulty falling asleep**
- B. Excessive daytime sleepiness**
- C. Increased energy levels at night**
- D. Consistent restful sleep**

Excessive daytime sleepiness is a hallmark symptom of sleep apnea. This condition causes repeated disruptions in breathing during sleep, leading to fragmented sleep and a lack of restorative rest. As a result, individuals with sleep apnea often struggle to stay awake and alert during the day, even after a full night's sleep. The repeated awakening, though often unconscious, means that the person does not progress through the full sleep cycles necessary for adequate recovery and alertness. In contrast, difficulty falling asleep might be associated with various sleep disorders or stress, but it is not specific to sleep apnea. Increased energy levels at night can occur in some individuals but typically should not be expected in those suffering from sleep apnea, as the condition generally leads to overall fatigue rather than increased alertness. Consistent restful sleep is also contrary to the experience of those with sleep apnea, who frequently wake up feeling unrested despite being in bed for the appropriate amount of time.

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://spriggsessentialssleeptech.examzify.com>

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

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