

ABRET Electroencephalography (EEG) Practice Test (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. If EEG shows three Hertz spike and wave that are blunt, what condition is likely indicated?**
 - A. Intractable epilepsy**
 - B. Encephalopathy**
 - C. Reactive seizure**
 - D. Normal variation**

- 2. What does the term "scotoma" refer to in medical terminology?**
 - A. Area of vision loss**
 - B. Area of increased visual acuity**
 - C. Area of night blindness**
 - D. Area of color blindness**

- 3. Which hormone is commonly used to treat infantile spasms?**
 - A. Corticosteroids**
 - B. ACTH (Adrenocorticotrophic hormone)**
 - C. Insulin**
 - D. Oxytocin**

- 4. Wernicke's area is located in which part of the brain?**
 - A. Frontal lobe**
 - B. Posterior part of the superior temporal gyrus**
 - C. Inferior frontal gyrus**
 - D. Occipital lobe**

- 5. An EEG performed two days after a transient ischemic attack is likely to show what type of activity?**
 - A. Abnormal spikes**
 - B. Normal activity**
 - C. Low voltage fast activity**
 - D. Focal slowing**

- 6. Which class of medications, when given in rapidly increasing dosages, is known for having a strong sedative effect?**
- A. Benzodiazepines**
 - B. Barbiturates**
 - C. Antidepressants**
 - D. Non-steroidal anti-inflammatory drugs**
- 7. What is the first clinical sign of Landau-Kleffner Syndrome?**
- A. Seizures**
 - B. Aphasia**
 - C. Psychosis**
 - D. Ataxia**
- 8. What does ADA stand for in the context of EEG?**
- A. Asynchronous Delta Activity**
 - B. Arrhythmic Delta Activity**
 - C. Altered Delta Activity**
 - D. Awake Delta Activity**
- 9. True or False: Myoclonic jerks are common in patients with epilepsy.**
- A. True**
 - B. False**
 - C. Not Applicable**
 - D. Depends on the Type of Epilepsy**
- 10. What is a common symptom of myoclonus?**
- A. Severe Emotional Disturbance**
 - B. Sudden Muscle Jerks**
 - C. Temporary Paralysis**
 - D. Loss of Coordination**

Answers

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

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Explanations

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1. If EEG shows three Hertz spike and wave that are blunt, what condition is likely indicated?

- A. Intractable epilepsy**
- B. Encephalopathy**
- C. Reactive seizure**
- D. Normal variation**

The presence of three Hertz spike and wave activity that appears blunt on an EEG is indicative of a specific pattern typically associated with encephalopathy. This pattern is often seen in conditions like childhood absence epilepsy, but the bluntness of the spikes can suggest a more diffuse cortical dysfunction, characteristic of encephalopathy rather than isolated seizure activity. Encephalopathy refers to a broad category of brain dysfunction that can arise from various causes, such as metabolic issues, toxic exposures, or infections. The blunt morphology of the spikes in this context suggests that there may be a more global disturbance in brain function, rather than just localized seizure activity. Consequently, the identification of this specific EEG pattern helps clinicians determine the underlying condition affecting the patient. In contrast, other conditions listed do not typically present with this specific EEG finding in isolation. Intractable epilepsy would often show more abnormal spikes or a different pattern, reactive seizures would likely exhibit more localized or periodic discharges, and normal variations of EEG would not encompass blunt three Hertz spike and wave patterns. Thus, the presence of this pattern strongly aligns with encephalopathy as the correct interpretation.

2. What does the term "scotoma" refer to in medical terminology?

- A. Area of vision loss**
- B. Area of increased visual acuity**
- C. Area of night blindness**
- D. Area of color blindness**

The term "scotoma" specifically refers to an area of vision loss within the visual field. It can manifest as a blind spot or a region where vision is significantly reduced or absent, despite surrounding areas maintaining normal vision. Scotomas can appear in various shapes and sizes and may arise from a range of conditions affecting the retina, optic nerve, or visual pathways, such as migraines, glaucoma, or retinal diseases. Understanding this concept is essential in diagnosing and managing various visual disorders, which can impact a patient's overall health and quality of life. The other options describe different visual conditions, but they do not accurately represent the specific definition of a scotoma.

3. Which hormone is commonly used to treat infantile spasms?

- A. Corticosteroids**
- B. ACTH (Adrenocorticotropic hormone)**
- C. Insulin**
- D. Oxytocin**

The treatment of infantile spasms often involves the use of ACTH, or adrenocorticotropic hormone, which is particularly effective in managing this condition. Infantile spasms, a type of epilepsy seen in young children, may be associated with developmental disorders such as West syndrome. ACTH plays a crucial role in modulating the body's stress response and can have an anti-inflammatory effect on the brain's pathways involved in seizure activity. When administered for the treatment of infantile spasms, ACTH acts to stabilize the synaptic environment and may reduce the hyperexcitability that characterizes these spasms. This hormonal treatment has shown effectiveness in not only halting the spasms but also improving long-term developmental outcomes in some children. In contrast, while corticosteroids are sometimes used to treat various neurological conditions, they are not the first-line treatment for infantile spasms. Insulin is primarily associated with the regulation of glucose metabolism and has no established role in treating seizures. Oxytocin plays a part in social bonding and reproductive functions but does not involve seizure management or treatment of infantile spasms. Thus, ACTH stands out as the preferred therapeutic agent in this specific clinical context.

4. Wernicke's area is located in which part of the brain?

- A. Frontal lobe**
- B. Posterior part of the superior temporal gyrus**
- C. Inferior frontal gyrus**
- D. Occipital lobe**

Wernicke's area is primarily associated with the processing and understanding of language. It is located in the posterior part of the superior temporal gyrus, which is situated in the dominant hemisphere of the brain for language, typically the left hemisphere in right-handed individuals and many left-handed individuals as well. This region plays a crucial role in language comprehension, allowing individuals to interpret spoken and written language effectively. Damage to Wernicke's area can result in Wernicke's aphasia, characterized by fluent but nonsensical speech and a significant difficulty in understanding language, highlighting the importance of this specific brain region in communication and cognitive function.

5. An EEG performed two days after a transient ischemic attack is likely to show what type of activity?

- A. Abnormal spikes**
- B. Normal activity**
- C. Low voltage fast activity**
- D. Focal slowing**

After a transient ischemic attack (TIA), an EEG is likely to show normal activity. A TIA is characterized by temporary reductions in blood flow to the brain, leading to symptoms that resolve within a short period. Since TIAs do not typically cause permanent damage or significant changes in cerebral function, the EEG performed shortly thereafter generally reflects the brain's ongoing normal electrical activity. In the context of EEG findings, it is important to note that transient ischemic attacks do not commonly result in the enduring alterations associated with more prolonged ischemic events or strokes. While abnormalities such as focal slowing can be indicative of specific types of brain injury or neurological dysfunction, they are less expected shortly after a TIA when the brain's electrical activity is still functioning within normal parameters. Normal EEG findings in this situation can reinforce the understanding that despite the recent transient event, the brain's overall electrical stability remains intact for the immediate period following a TIA.

6. Which class of medications, when given in rapidly increasing dosages, is known for having a strong sedative effect?

- A. Benzodiazepines**
- B. Barbiturates**
- C. Antidepressants**
- D. Non-steroidal anti-inflammatory drugs**

Barbiturates are a class of medications that are well-known for their strong sedative effects, particularly when administered in rapidly increasing dosages. They work by enhancing the action of the neurotransmitter gamma-aminobutyric acid (GABA) at the GABA-A receptor, which leads to increased neuronal inhibition and a calming effect on the brain. This mechanism makes them effective as sedatives, anesthetics, and anticonvulsants. As the dosage of barbiturates increases, the sedative effect intensifies, which can lead to significant sedation and respiratory depression if not carefully monitored. Because of their potential for overdose and the development of tolerance, barbiturates have largely been replaced by benzodiazepines in many clinical uses, though they are still known for their potency as sedative agents. In contrast, benzodiazepines also have sedative properties but are typically considered safer than barbiturates due to a ceiling effect, which limits their sedative impact even at high doses. Antidepressants are primarily used to treat mood disorders and have varying sedative effects, but they are not predominantly known for causing sedation with dose increases. Non-steroidal anti-inflammatory drugs (NSAIDs) are primarily used for pain relief and

7. What is the first clinical sign of Landau-Kleffner Syndrome?

- A. Seizures
- B. Aphasia**
- C. Psychosis
- D. Ataxia

Landau-Kleffner Syndrome (LKS) is a rare childhood neurological condition characterized by a progressive loss of language skills in a previously healthy child, often following the onset of seizures. The first clinical sign typically observed in this syndrome is a sudden or gradual acquisition of aphasia, which refers to the impaired ability to communicate effectively through speech or writing. Children with LKS may initially appear to develop normally, but they begin to lose their expressive language abilities and may also have difficulty with comprehension. This language regression is a hallmark feature of LKS and distinguishes it from other conditions that may present similarly. While seizures are indeed a prominent feature of LKS and may develop after the onset of language difficulties, they do not signify the initial clinical manifestation. Other conditions listed, such as psychosis and ataxia, are not characteristic features of LKS and typically arise in different contexts or disorders. Understanding the clinical progression of LKS highlights the critical importance of early identification of language deficits as a primary indicator of the syndrome.

8. What does ADA stand for in the context of EEG?

- A. Asynchronous Delta Activity
- B. Arrhythmic Delta Activity**
- C. Altered Delta Activity
- D. Awake Delta Activity

In the context of EEG, ADA stands for Arrhythmic Delta Activity. This term refers to a specific pattern observed in an EEG recording, often associated with certain neurological conditions. Arrhythmic delta activity is characterized by a lack of uniformity in the delta wave patterns, which can indicate an abnormal state in brain function. Recognizing this pattern is important for distinguishing between normal variations in delta activity and those associated with pathological conditions. In EEG interpretations, arrhythmic delta activity may suggest underlying issues such as encephalopathy or other types of brain dysfunction, making its identification clinically significant. It's crucial for EEG technologists and clinicians to understand the characteristics and implications of arrhythmic delta activity in order to accurately assess the health of the brain based on EEG findings.

9. True or False: Myoclonic jerks are common in patients with epilepsy.

A. True

B. False

C. Not Applicable

D. Depends on the Type of Epilepsy

Myoclonic jerks are indeed common in patients with epilepsy, particularly in specific types of seizure disorders such as myoclonic epilepsy. These jerks are characterized by rapid, involuntary muscle contractions and can occur in varying degrees. In conditions like Juvenile Myoclonic Epilepsy, myoclonic jerks are a defining feature and often present alongside generalized tonic-clonic seizures. Understanding the nature of myoclonic jerks and their role in epilepsy can help caregivers and clinicians better manage symptoms and adjust treatment plans effectively. In a broader context, not all epileptic patients experience myoclonic jerks, but for many, they are a significant aspect of their condition. This highlights the complexities and variances in epilepsy, underscoring that while myoclonic jerks are common, it is essential to look at the full clinical picture when assessing an individual's seizure activity.

10. What is a common symptom of myoclonus?

A. Severe Emotional Disturbance

B. Sudden Muscle Jerks

C. Temporary Paralysis

D. Loss of Coordination

Myoclonus is characterized by sudden, involuntary muscle jerks, which is the hallmark symptom of this condition. These jerks can vary in intensity and frequency, occurring in various parts of the body. They can happen as isolated events or may be more frequent in certain types of myoclonus. Understanding myoclonus involves recognizing that it can be a normal physiological response, like hiccups, or occur as a part of neurological disorders. While conditions may also involve symptoms like emotional disturbances or coordination issues, the defining feature of myoclonus itself is specifically these rapid muscle contractions that can be startling or disruptive. Moreover, the other symptoms mentioned, such as severe emotional disturbance, temporary paralysis, and loss of coordination, do not specifically pertain to myoclonus or characterize it effectively. These could relate to other neurological issues or conditions but do not encapsulate the core nature of myoclonus.

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://abreteeg.examzify.com>

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

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