

Histopathology and MTLE 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. What is the typical electron microscopy finding in minimal change disease?**
 - A. Foot process effacement of podocytes with preserved overall glomerular architecture**
 - B. Subepithelial immune complex deposits**
 - C. Mesangial proliferation**
 - D. Basement membrane splitting**

- 2. Which statement about monoclonality in amyloid typing is NOT correct?**
 - A. Monoclonality is suggested by predominance of one light chain on IHC or serum free light chain analysis**
 - B. Kappa and lambda light chains are involved in amyloid deposition**
 - C. Monoclonality can be detected by serum free light chain analysis**
 - D. Monoclonality can be established solely by finding equal amounts of kappa and lambda light chains**

- 3. The document summarizing a candidate's performance on the MT exam is called?**
 - A. Report of rating**
 - B. Rating in the exam**
 - C. Oath taking**
 - D. Functions of the board**

- 4. Which amount is designated for Applicants who were examined?**
 - A. 50php**
 - B. 25php**
 - C. 10php**
 - D. 5php**

- 5. RA 6425 is associated with which act?**
 - A. Newborn Screening Act of 2004**
 - B. Blood Banking Act of 1956**
 - C. Commission on Higher Education Act**
 - D. Dangerous Act of 1972**

- 6. Which dehydrating agent is commonly used and listed among the commonly used dehydrating agents?**
- A. Ethanol**
 - B. Ethyl Alcohol**
 - C. Methanol**
 - D. Isopropanol**
- 7. Ki-67 labeling index indicates?**
- A. Cellular proliferation rate**
 - B. Degree of differentiation**
 - C. Necrosis extent**
 - D. Level of inflammation**
- 8. Langhans giant cells are formed by the fusion of which cells?**
- A. Neutrophils**
 - B. Activated macrophages fuse to form Langhans giant cells.**
 - C. B cells**
 - D. Epithelial cells**
- 9. Primary importance of frozen sections**
- A. Rapid diagnosis**
 - B. Immunohistochemistry**
 - C. Tissue fixation**
 - D. Precise prognosis**
- 10. Which concept relates to recognizing credentials from foreign jurisdictions for MT professionals?**
- A. Roster of MT**
 - B. Foreign reciprocity**
 - C. Penal provisions**
 - D. Separability clause**

Answers

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

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Explanations

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1. What is the typical electron microscopy finding in minimal change disease?

- A. Foot process effacement of podocytes with preserved overall glomerular architecture**
- B. Subepithelial immune complex deposits**
- C. Mesangial proliferation**
- D. Basement membrane splitting**

Minimal change disease produces nephrotic syndrome with normal light microscopy and negative immunofluorescence, so the key EM finding is diffuse effacement of podocyte foot processes across the glomerulus while the glomerular basement membrane and overall architecture remain intact. This widespread foot process effacement disrupts the slit diaphragm, allowing large amounts of protein to leak into the urine, which explains the prominent proteinuria. The lack of immune deposits on EM helps distinguish it from immune complex-mediated diseases; subepithelial deposits would suggest membranous nephropathy, mesangial proliferation points to mesangial GN, and basement membrane splitting is seen in MPGN.

2. Which statement about monoclonality in amyloid typing is NOT correct?

- A. Monoclonality is suggested by predominance of one light chain on IHC or serum free light chain analysis**
- B. Kappa and lambda light chains are involved in amyloid deposition**
- C. Monoclonality can be detected by serum free light chain analysis**
- D. Monoclonality can be established solely by finding equal amounts of kappa and lambda light chains**

Monoclonality in amyloid typing hinges on evidence that the amyloid fibrils come from a single clone producing one light chain type, typically indicated by restriction to either kappa or lambda light chains. When immunohistochemistry shows predominance of one light chain, or when serum free light chain analysis reveals an abnormal kappa to lambda ratio, this supports a clonal source for the amyloid. Across cases, either light chain can be involved in deposition, so the presence of kappa or lambda alone does not distinguish the clone—what matters is that one light chain is clearly dominant, pointing to monoclonality. Serum free light chain testing is a useful, minimally invasive way to detect this clonal pattern. However, monoclonality cannot be established solely by finding equal amounts of kappa and lambda light chains; equal levels suggest polyclonal activity or a non-clonal state, and do not indicate a single clonal source.

3. The document summarizing a candidate's performance on the MT exam is called?

- A. Report of rating**
- B. Rating in the exam**
- C. Oath taking**
- D. Functions of the board**

The main idea is identifying the formal record that communicates a candidate's performance after an exam. The official document that summarizes how a candidate did, including scores and overall results, is called a report of rating. This term conveys a formal report of the appraisal or rating assigned to the candidate, which is exactly what the document aims to do. The other phrases don't fit as well. A rating in the exam sounds like the act of giving a rating rather than the written record itself. Oath taking is about a ceremonial commitment and has no relation to documenting exam results. Functions of the board refers to the duties and responsibilities of the examining body, not the result summary issued to candidates.

4. Which amount is designated for Applicants who were examined?

- A. 50php**
- B. 25php**
- C. 10php**
- D. 5php**

Understanding how fees are laid out for licensure exams helps here. There are separate charges for applying and for actually taking the exam. The amount designated for Applicants who were examined is the examination-related cost paid by those who sat for the test. This is represented by the smallest listed amount, since it covers the exam administration itself rather than application processing or other services. The other larger or different amounts correspond to other steps or services, so they don't apply to the group that actually took the exam.

5. RA 6425 is associated with which act?

- A. Newborn Screening Act of 2004**
- B. Blood Banking Act of 1956**
- C. Commission on Higher Education Act**
- D. Dangerous Act of 1972**

RA 6425 is the Dangerous Drugs Act of 1972, the law that regulates and penalizes the importation, distribution, manufacture, and use of dangerous drugs in the Philippines. It established the framework for drug control, including the creation of the Dangerous Drugs Board to set policy and coordinate anti-drug efforts, and it defines what counts as dangerous drugs and the associated penalties and treatment guidelines. This act laid the foundation for how narcotics and related substances are handled in the country, a framework that was later updated by the Comprehensive Dangerous Drugs Act. The other options pertain to unrelated areas—newborn screening, blood banking, and higher education—so they don't fit the scope of this law.

6. Which dehydrating agent is commonly used and listed among the commonly used dehydrating agents?

- A. Ethanol**
- B. Ethyl Alcohol**
- C. Methanol**
- D. Isopropanol**

In tissue processing, the dehydrating solvent must remove water while preserving structure and remaining compatible with the next steps. Ethanol, also called ethyl alcohol, is the most commonly used dehydrating agent because it mixes well with water and with typical clearing agents and embedding media, works effectively in a graded series to prevent abrupt shrinkage, and is readily available and cost-effective. Ethanol and ethyl alcohol are the same chemical, so that option reflects the standard dehydrant named in most protocols. While methanol is toxic and less favored for routine dehydration, and isopropanol can be used in some protocols, they are not as universally listed as the primary dehydrants as ethanol is.

7. Ki-67 labeling index indicates?

- A. Cellular proliferation rate**
- B. Degree of differentiation**
- C. Necrosis extent**
- D. Level of inflammation**

Ki-67 labeling index measures cellular proliferation. Ki-67 is a nuclear protein expressed in all actively cycling cells (G1, S, G2, and M phases) but absent in resting cells (G0). By staining tissue for Ki-67, we determine what fraction of cells are positive, reflecting the tissue's growth fraction. A higher index indicates more cells are actively dividing, which in tumors often corresponds to faster growth and can influence prognosis and treatment decisions. It does not measure differentiation, necrosis, or inflammation—those aspects are assessed by other features and markers. Remember that the index can vary within a tumor and can be affected by sampling and staining methods.

8. Langhans giant cells are formed by the fusion of which cells?

- A. Neutrophils**
- B. Activated macrophages fuse to form Langhans giant cells.**
- C. B cells**
- D. Epithelial cells**

Langhans giant cells form when activated macrophages fuse together, a process that occurs in granulomatous inflammation such as tuberculosis. Monocyte-derived macrophages are activated by cytokines, especially IFN- γ from Th1 cells, and then fuse to create a multinucleated cell with nuclei arranged in a horseshoe or peripheral ring. This makes activated macrophages the correct source of Langhans giant cells. Neutrophils, B cells, and epithelial cells do not form Langhans giant cells (neutrophils are short-lived phagocytes, B cells are lymphocytes that don't fuse to giant cells, and epithelial cells can form other multinucleated syncytia in some contexts but not Langhans giant cells).

9. Primary importance of frozen sections

- A. Rapid diagnosis**
- B. Immunohistochemistry**
- C. Tissue fixation**
- D. Precise prognosis**

Frozen sections are used to give a rapid diagnosis during an operation so the surgical team can make immediate decisions about how to proceed. By quickly freezing the tissue, cutting very thin sections, and staining for a fast look, the pathologist provides actionable information while the patient is still in the operating room. This allows the surgeon to determine, for example, whether a lesion is malignant, whether margins should be expanded, or whether another course of action is needed right away. Immunohistochemistry and other special tests aren't the primary goal here because they require additional processing and time, and their results can be unreliable on frozen tissue due to artifacts. Thorough prognosis, grading, and staging, on the other hand, depend on formal, fixed, and permanently processed specimens with comprehensive analyses. Tissue fixation is part of the standard processing that follows the immediate frozen assessment, not the purpose of the frozen section itself.

10. Which concept relates to recognizing credentials from foreign jurisdictions for MT professionals?

- A. Roster of MT**
- B. Foreign reciprocity**
- C. Penal provisions**
- D. Separability clause**

The main idea here is how professional credentials earned in another country are treated when someone wants to work as an MT in a different jurisdiction. This concept is known as foreign reciprocity. It describes a policy where a licensing authority recognizes and accepts credentials from foreign jurisdictions, often allowing the applicant to obtain licensure or practice rights without repeating every local requirement, provided certain standards are met (such as credential verification, no active disciplinary actions, and sometimes additional criteria like exams or experience). This fits because the phrase "recognizing credentials from foreign jurisdictions" is the heart of reciprocity—establishing mutual trust between licensing systems to help skilled professionals move between places while maintaining professional standards. The other options aren't about accepting or validating foreign credentials: a roster is just a list of currently licensed MTs; penal provisions deal with sanctions for violations; and a separability clause concerns the validity of parts of a law if another part is struck down.

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://histopathologymtle.examzify.com>

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

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