

NETTER'S ANATOMY PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

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THE FULL VERSION STUDY GUIDE**

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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. Which term describes the neurocranium (calvaria), the skull portion that contains the brain and its meninges?**
 - A. Viscerocranium
 - B. Neurocranium
 - C. Canaliculi
 - D. Osteon
- 2. Which organelle produces ATP via oxidative phosphorylation and has an outer membrane and folded inner membrane?**
 - A. Mitochondria
 - B. Golgi apparatus
 - C. Peroxisomes
 - D. Lysosomes
- 3. Which term describes the hairlike canals that connect lacunae to each other and the central canal?**
 - A. Haversian canal
 - B. Canaliculi
 - C. Osteon
 - D. Viscerocranium
- 4. Which plexus largely innervates muscles of the buttock, pelvis, perineum, and lower limb?**
 - A. Brachial Plexus
 - B. Lumbar Plexus
 - C. Lumbosacral Plexus
 - D. Stratum Basale
- 5. Which structure consists of paired bundle-like inclusions essential for chromosome movement during cell division?**
 - A. Nucleolus
 - B. Centrioles
 - C. Microtubules
 - D. Organelles

- 6. Which joint is a fibrous joint that allows little movement, such as between skull bones?**
- A. Suture
 - B. Interosseous membrane
 - C. Epiphyseal plate
 - D. Intervertebral disc
- 7. Which lining lines the body walls?**
- A. Parietal peritoneum
 - B. Parietal pleura
 - C. Visceral peritoneum
 - D. Pia mater
- 8. Which cells are capable of contraction and resemble fibroblasts and smooth muscle cells?**
- A. Mast cells
 - B. Macrophages
 - C. Myofibroblasts
 - D. Elastic fibers
- 9. Condylloid (ellipsoid) joint is a biaxial joint for flexion, extension, abduction, adduction, and circumduction, such as finger joints. Which option expresses this joint type?**
- A. Suture
 - B. Interosseous membrane
 - C. Epiphyseal plate
 - D. Condylloid (ellipsoid) joint
- 10. Which membrane encases the lungs themselves and reflects off the lung surfaces to be continuous with the parietal pleura?**
- A. Parietal pleura
 - B. Visceral pleura
 - C. Peritoneum
 - D. Dura mater

Answers

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

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Explanations

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1. Which term describes the neurocranium (calvaria), the skull portion that contains the brain and its meninges?

- A. Viscerocranium
- B. Neurocranium**
- C. Canaliculi
- D. Osteon

The skull is organized into two main parts: the neurocranium and the viscerocranium. The neurocranium forms the protective case around the brain, including the skull cap (calvaria) and the cranial base, and houses the brain and its protective meninges. That makes it the term that best describes the portion containing the brain and its meninges. In contrast, the viscerocranium is the facial skeleton, comprising bones of the face. Canaliculi and osteon are microscopic bone features—tiny channels and the basic unit of compact bone, respectively—not terms for skull regions.

2. Which organelle produces ATP via oxidative phosphorylation and has an outer membrane and folded inner membrane?

- A. Mitochondria**
- B. Golgi apparatus
- C. Peroxisomes
- D. Lysosomes

ATP production by oxidative phosphorylation happens in mitochondria, which have a double membrane—the outer membrane and a highly folded inner membrane known as cristae. The inner membrane houses the electron transport chain and the ATP synthase enzyme, and its folds provide a large surface area to maximize ATP production. The proton gradient generated across the inner membrane powers the synthesis of ATP as protons flow back through ATP synthase. Mitochondria also contain their own DNA and ribosomes, reflecting their distinct, energy-producing role. Other organelles have different functions and don't carry out oxidative phosphorylation. The Golgi apparatus modifies and packages proteins, the peroxisomes handle fatty acid oxidation and detoxification, and lysosomes degrade macromolecules.

3. Which term describes the hairlike canals that connect lacunae to each other and the central canal?

- A. Haversian canal
- B. Canaliculi**
- C. Osteon
- D. Viscerocranium

In bone tissue, osteocytes reside in small spaces called lacunae and stay connected through slender, hairlike channels known as canaliculi. These canaliculi form a network that links neighboring lacunae and reaches the central canal, enabling nutrients, wastes, and signals to move between cells and the blood supply in the center of the osteon. That network of narrow passages is what canaliculi describes. The central canal itself is the Haversian canal, and the whole repeating unit is the osteon; viscerocranium refers to facial bones and isn't part of this microscopic connection.

4. Which plexus largely innervates muscles of the buttock, pelvis, perineum, and lower limb?

A. Brachial Plexus

B. Lumbar Plexus

C. Lumbosacral Plexus

D. Stratum Basale

The lumbosacral plexus is the network that primarily innervates the muscles of the buttock, pelvis, perineum, and lower limb. It is formed by ventral rami from the lumbar and sacral regions (roughly L1–S4) that come together and give rise to the major nerves of the lower body. For the buttock, nerves such as the gluteal nerves originate from this plexus and supply the gluteal muscles. The perineum receives innervation from nerves like the pudendal nerve, also part of this plexus, and pelvic organs are served by branches within the same network. The entire lower limb depends on nerves that branch from the lumbosacral plexus, including the sciatic nerve for the majority of the leg and foot. In contrast, the brachial plexus serves the upper limb, the lumbar plexus mainly handles the anterior thigh and abdominal wall, and the stratum basale is a skin layer with no neural plexus involvement.

5. Which structure consists of paired bundle-like inclusions essential for chromosome movement during cell division?

A. Nucleolus

B. Centrioles

C. Microtubules

D. Organelles

Chromosome movement in cell division is driven by the spindle apparatus organized at the centrosome. The centrosome contains a pair of centrioles, each a cylindrical bundle of microtubule triplets. These two centrioles sit at opposite ends of the cell and organize the microtubules that attach to chromosomes at kinetochores, pulling sister chromatids toward opposite poles during mitosis. The centrioles duplicate before division so two poles form, creating the bipolar spindle necessary for accurate chromosome separation. The nucleolus is focused on ribosome production, not spindle formation; microtubules are the fibers that form the spindle but are not paired, bundle-like inclusions themselves; organelles is a broad term that does not specify the structure responsible for organizing the spindle.

6. Which joint is a fibrous joint that allows little movement, such as between skull bones?

A. Suture

B. Interosseous membrane

C. Epiphyseal plate

D. Intervertebral disc

Fibrous joints are held together by dense collagen fibers and typically permit little or no movement. In the skull, bones are connected by sutures—dense connective tissue seams where bone edges interlock. This makes the sutures synarthroses, providing a very firm, immobile connection in adults while still allowing slight flexibility during birth and growth in early life. Over time, sutures ossify and the movement disappears. Other options don't fit because an interosseous membrane is a fibrous connection between parallel long bones (like the radius and ulna) and isn't between skull bones; the epiphyseal plate is a cartilaginous growth zone between the ends of long bones; and the intervertebral disc is a cartilaginous joint between vertebrae.

7. Which lining lines the body walls?

- A. Parietal peritoneum**
- B. Parietal pleura
- C. Visceral peritoneum
- D. Pia mater

The lining lining the walls of a body cavity is the parietal layer of a serous membrane. In the abdomen, that lining is the parietal peritoneum, which forms the inner surface of the abdominal wall and then reflects onto the organs as the visceral peritoneum. This distinction between lining the cavity walls (parietal) and covering the organs (visceral) is what sets parietal peritoneum apart. The parietal pleura lines the chest wall, not the abdominal body wall; the visceral peritoneum covers abdominal organs rather than the walls; and the pia mater lines the brain and spinal cord. So the lining of the body walls in the abdomen is parietal peritoneum.

8. Which cells are capable of contraction and resemble fibroblasts and smooth muscle cells?

- A. Mast cells
- B. Macrophages
- C. Myofibroblasts**
- D. Elastic fibers

These cells are myofibroblasts—the ones that blend features of fibroblasts with smooth muscle cells and can contract. They arise from fibroblasts during wound healing when signals like transforming growth factor-beta and mechanical tension are present. Their cytoskeleton includes actin organized with myosin, including alpha-smooth muscle actin, which gives them the ability to generate contractile force and draw wound edges together. At the same time, they continue to synthesize extracellular matrix like fibroblasts, supporting tissue repair and scar formation. Mast cells are inflammatory cells packed with granules; macrophages are phagocytic immune cells; elastic fibers are structural components of the extracellular matrix, not cells.

9. Condylod (ellipsoid) joint is a biaxial joint for flexion, extension, abduction, adduction, and circumduction, such as finger joints. Which option expresses this joint type?

- A. Suture
- B. Interosseous membrane
- C. Epiphyseal plate
- D. Condylod (ellipsoid) joint**

Condylod (ellipsoid) joints are able to move in two planes, making them biaxial. They allow flexion and extension in one plane, and abduction and adduction in the perpendicular plane, with circumduction as a combined movement. This type arises from an oval convex surface articulating with a complementary concave surface, which lets the bones glide in two dimensions without true rotation around a long axis. The metacarpophalangeal joints in the fingers are a classic example, and the wrist's radiocarpal joint is another good example. The other options describe structures that are not joints with this two plane mobility: sutures are immovable fibrous joints, interosseous membranes are fibrous connections between bones, and epiphyseal plates are growth regions, not functional joints.

10. Which membrane encases the lungs themselves and reflects off the lung surfaces to be continuous with the parietal pleura?

- A. Parietal pleura
- B. Visceral pleura**
- C. Peritoneum
- D. Dura mater

Lungs are covered by a serous membrane that sits directly on their surface and folds back to become the lining of the chest wall. This membrane is the visceral pleura. It adheres tightly to the lung tissue and, at the lung's roots, reflects to form the parietal pleura that lines the inner thoracic wall, diaphragm, and mediastinum. The space between these layers—the pleural cavity—contains a small amount of fluid to allow smooth movement during breathing. The other options don't encase the lungs: the parietal pleura lines the chest wall; the peritoneum lines the abdominal cavity; the dura mater is a protective covering of the brain and spinal cord.

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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://nettersanatomy.examzify.com>

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

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