

Challenge A Anatomy Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

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

SAMPLE

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

SAMPLE

- 1. What term describes the set of organs that allows a person to breathe?**
 - A. Respiratory system**
 - B. Digestive system**
 - C. Circulatory system**
 - D. Nervous system**

- 2. What is the large tube connecting the larynx to the bronchial tubes that moves air to and from the lungs?**
 - A. Trachea**
 - B. Esophagus**
 - C. Bronchus**
 - D. Alveolus**

- 3. Which structure forms the voice box?**
 - A. Bronchi**
 - B. Epiglottis**
 - C. Nostril**
 - D. Larynx**

- 4. Which cellular projections are specialized to receive information from other neurons?**
 - A. Neuron**
 - B. Nucleus**
 - C. Muscle fiber**
 - D. Dendrites**

- 5. Which valve is also known as the mitral valve?**
 - A. Tricuspid valve**
 - B. Aortic valve**
 - C. Pulmonary valve**
 - D. Bicuspid valve (mitral valve)**

- 6. At the end of the large intestine, which structure stores waste material as a solid before elimination?**
- A. Anus**
 - B. Cecum**
 - C. Rectum**
 - D. Sigmoid colon**
- 7. Which opening is the final exit point of the digestive tract through which waste leaves the body?**
- A. Esophagus**
 - B. Anus**
 - C. Large intestine**
 - D. Appendix**
- 8. The opening in the face, surrounded by the lips through which food is taken and from which speech is emitted**
- A. Mouth**
 - B. Nose**
 - C. Nostrils**
 - D. Nasal passage**
- 9. A channel for airflow through the nose**
- A. Mouth**
 - B. Nasal passage**
 - C. Larynx**
 - D. Bronchi**
- 10. Which tube carries air between the larynx and the bronchial tubes?**
- A. Trachea**
 - B. Esophagus**
 - C. Bronchus**
 - D. Larynx**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. What term describes the set of organs that allows a person to breathe?

- A. Respiratory system**
- B. Digestive system**
- C. Circulatory system**
- D. Nervous system**

Breathing is carried out by the respiratory system, a group of organs dedicated to taking in air, exchanging gases, and expelling air. It includes the lungs where oxygen moves into the blood and carbon dioxide is released, the airways that conduct air in and out, and the diaphragm and chest muscles that expand the chest to draw air in and relax to push air out. This together-doing is what we mean by respiration, the process of breathing. The digestive system handles breaking down food and absorbing nutrients. The circulatory system pumps blood and transports oxygen and carbon dioxide but relies on the respiratory system to provide the gas exchange at the lungs. The nervous system regulates many activities, including breathing rate, but the set of organs that enables breathing is the respiratory system.

2. What is the large tube connecting the larynx to the bronchial tubes that moves air to and from the lungs?

- A. Trachea**
- B. Esophagus**
- C. Bronchus**
- D. Alveolus**

This question is about the airway that conducts air from the larynx down into the lungs. The large tube that fits this description is the trachea, or windpipe. It runs from the larynx and divides into the main bronchi that lead to each lung, keeping air moving in and out. Its walls have cartilage rings that keep it open during breathing, and its inner lining is a ciliated epithelium with goblet cells that help trap and clear mucus and particles. The esophagus, by contrast, is the posterior tube that carries food to the stomach; the bronchus is a branch that splits from the trachea to each lung, not the main passage; and the alveolus is a tiny air sac where gas exchange occurs, not a tube.

3. Which structure forms the voice box?

- A. Bronchi**
- B. Epiglottis**
- C. Nostril**
- D. Larynx**

The voice box is formed by the larynx, a cartilaginous structure in the neck that houses the vocal cords. It sits at the top of the trachea and serves as the gateway between the pharynx and the lower airway. When you speak, air from the lungs passes through the stretched vocal cords and causes them to vibrate, producing sound that gets shaped into speech by the mouth and throat. The epiglottis is a flap that helps protect the airway during swallowing, but it isn't the voice box itself. The bronchi are the main passages into the lungs, and nostrils are just the external entry points for air. So the larynx is the structure that forms the voice box.

4. Which cellular projections are specialized to receive information from other neurons?

- A. Neuron
- B. Nucleus
- C. Muscle fiber
- D. Dendrites**

Dendrites are the structures that receive information from other neurons. These branched projections extend from the neuron's cell body and are rich with receptors for neurotransmitters released at synapses. The large surface area, including specialized knobs called dendritic spines, allows many synaptic inputs to be detected and integrated. When neurotransmitters bind to receptors on a dendrite, they produce postsynaptic potentials that can summate and influence whether the neuron fires an action potential. The other options aren't receiving projections: a neuron is the whole cell, the nucleus is just an internal organelle, and a muscle fiber is an effector cell that responds to neural signals rather than serving as a primary recipient of synaptic input.

5. Which valve is also known as the mitral valve?

- A. Tricuspid valve
- B. Aortic valve
- C. Pulmonary valve
- D. Bicuspid valve (mitral valve)**

This question tests which heart valve carries the name mitral. The mitral valve is the valve between the left atrium and the left ventricle on the heart's left side, and it has two leaflets. Because two leaflets are present, it's also called the bicuspid valve. This two-cusped, left-sided valve helps prevent blood from flowing backward into the left atrium when the left ventricle contracts. In contrast, the valve between the right atrium and right ventricle is the tricuspid valve, which has three leaflets. The valves that let blood exit the ventricles—the aortic valve and the pulmonary valve—are semilunar valves, each with three cusps. So the mitral valve is the same as the bicuspid valve.

6. At the end of the large intestine, which structure stores waste material as a solid before elimination?

- A. Anus
- B. Cecum
- C. Rectum**
- D. Sigmoid colon

The end of the large intestine stores waste in the rectum. As water absorption finishes along the colon, the stool becomes solid and is held in the rectal ampulla, a temporary reservoir that signals the body when it's ready to defecate. The rectum's stretch receptors trigger the defecation reflex and coordinate with the anal sphincters to control elimination. The anus is just the exit opening, not a storage site. The cecum is the starting pouch of the large intestine, and the sigmoid colon mainly moves and stores stool before it reaches the rectum, but the actual storage before elimination occurs in the rectum.

7. Which opening is the final exit point of the digestive tract through which waste leaves the body?

- A. Esophagus**
- B. Anus**
- C. Large intestine**
- D. Appendix**

Waste leaves the digestive tract through the anus, the final opening at the end of the alimentary canal. After material is formed into stool in the large intestine and stored in the rectum, it is expelled through the anal canal when the internal and external anal sphincters relax during defecation. The esophagus is just a transport tube that carries swallowed material from the mouth to the stomach; it isn't the exit for waste. The large intestine's main job is absorbing water and shaping stool, not providing the exit itself. The appendix is a small pouch attached to the large intestine with no role in waste passage.

8. The opening in the face, surrounded by the lips through which food is taken and from which speech is emitted

- A. Mouth**
- B. Nose**
- C. Nostrils**
- D. Nasal passage**

The opening in the face used for both taking in food and producing speech is the mouth. It forms the oral cavity, bounded by the lips, and houses the tongue and teeth to chew and manipulate food before swallowing. Speech relies on the mouth to shape sounds; the lips, tongue, and palate modify air from the lungs to create words. The other structures—nose, nostrils, and nasal passage—are primarily involved in breathing and smell, not the main entry for food or the primary channel for speech.

9. A channel for airflow through the nose

- A. Mouth**
- B. Nasal passage**
- C. Larynx**
- D. Bronchi**

Air entering through the nose travels through the nasal passages, the channel for airflow through the nose. These passages warm, humidify, and filter the air before it moves toward the throat. The nose is lined with mucus and tiny hairs that trap particles, with cilia helping move mucus away from the lungs. The mouth can also supply air, but it bypasses the nasal cavity and isn't the nasal channel. The larynx (the voice box) sits below the pharynx and guides air onward, but it isn't the nasal pathway. The bronchi are in the lungs, branching from the trachea, and are deeper in the airway, not part of the nasal route.

10. Which tube carries air between the larynx and the bronchial tubes?

A. Trachea

B. Esophagus

C. Bronchus

D. Larynx

Air travels from the larynx into a single, sturdy tube called the trachea. This airway runs from just below the larynx in the neck down into the chest, where it splits into the two main bronchi that lead into the lungs. The trachea serves as the direct conduit between the larynx and the bronchial tubes, keeping air moving to and from the lungs. The esophagus lies behind it and carries swallowed food, not air; the larynx sits above and contains the vocal cords; a bronchus is one of the two main passages inside the lungs that branch from the trachea. The trachea is reinforced by cartilage rings to stay open and is lined with ciliated cells that help remove mucus and debris.

SAMPLE

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://challengeanatomy.examzify.com>

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

SAMPLE