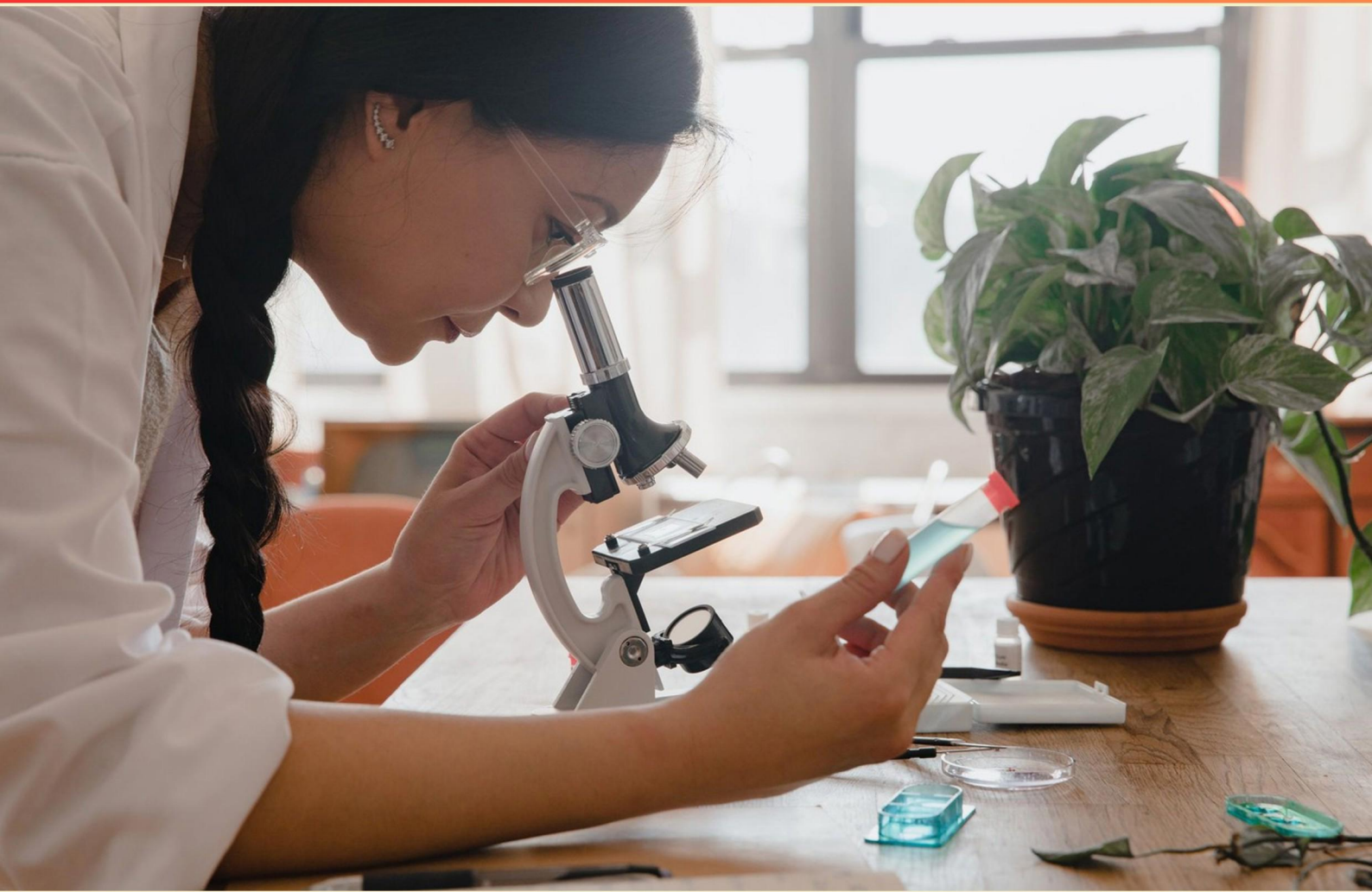


ABEKA BIOLOGY TEST 3 PRACTICE (SAMPLE)

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 group is characterized by branching veins, petals in multiples of four or five, and a taproot system?**
 - A. Dicots
 - B. Monocots
 - C. Gymnosperms
 - D. Ferns

- 2. The embryonic shoot that develops into the plant's above-ground parts is called the?**
 - A. Plumule
 - B. Radicle
 - C. Cotyledon
 - D. Hypocotyl

- 3. Which fruit type has an outer fleshy layer and an inner stone?**
 - A. Berry
 - B. Drupe
 - C. Pome
 - D. Capsule

- 4. The elbow and the knee are examples of which joints?**
 - A. Hinge joints
 - B. Ball and Socket joints
 - C. Pivot joints
 - D. Saddle joints

- 5. What is the primary function of the respiratory system?**
 - A. Digestion of nutrients.
 - B. Filtering blood.
 - C. Gas exchange, supplying O₂ to the bloodstream and removing CO₂ from it.
 - D. Hormone production.

- 6. Which carpal bone has a distinct hook-like projection known as the hook of hamate?**
- A. Hamate
 - B. Capitate
 - C. Trapezium
 - D. Scaphoid
- 7. Which carpal bone is sesamoid-like and lies within the tendon of the flexor carpi ulnaris?**
- A. Pisiform
 - B. Lunate
 - C. Scaphoid
 - D. Hamate
- 8. Rids the body of wastes**
- A. Excretory System
 - B. Respiratory System
 - C. Circulatory System
 - D. Integumentary System
- 9. Which bone is the thigh bone?**
- A. Femur
 - B. Humerus
 - C. Cranium
 - D. Pectoralis major
- 10. The primary purpose of fruits to a plant is to**
- A. Produce seeds
 - B. Scatter seeds
 - C. Protect seeds
 - D. Provide energy

Answers

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

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Explanations

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1. Which group is characterized by branching veins, petals in multiples of four or five, and a taproot system?

- A. Dicots**
- B. Monocots
- C. Gymnosperms
- D. Ferns

Dicots typically show net-like, branched leaf venation, petals in multiples of four or five, and a taproot system. The taproot is a single main root that grows downward with smaller lateral roots, which contrasts with monocots that have parallel leaf veins, floral parts in threes, and a fibrous root system. Gymnosperms don't produce petals, and ferns reproduce by spores and lack true seeds and a taproot-like structure. So the described combination points to dicots.

2. The embryonic shoot that develops into the plant's above-ground parts is called the?

- A. Plumule**
- B. Radicle
- C. Cotyledon
- D. Hypocotyl

In seeds, the embryo has specialized parts that become different parts of the plant. The embryonic shoot that will grow into the above-ground portions—stems and leaves—is the plumule. The plumule contains the shoot apical region that, once germination starts, develops into the stem and first leaves, forming the plant's above-ground structure. The radicle, by contrast, becomes the root system, anchoring the plant and absorbing water and nutrients. The cotyledons are seed leaves that often store nutrients to power the early growth, and the hypocotyl is the segment that connects the roots to the cotyledons and helps push the shoot upward during germination. So the term that names the embryonic shoot destined for the above-ground parts is plumule.

3. Which fruit type has an outer fleshy layer and an inner stone?

- A. Berry
- B. Drupe**
- C. Pome
- D. Capsule

A drupe is a fruit with a fleshy outer layer and a single hard pit inside that surrounds the seed. The outer part you eat is the fleshy portion, while the inner stone (endocarp) protects the seed. This structure is seen in peaches, plums, and cherries. In contrast, a berry has a fully fleshy pericarp with many seeds inside, like grapes or tomatoes. A pome, such as an apple or pear, has a fleshy outer part but a core that contains seeds in a papery or stiff inner area rather than a single hard stone. A capsule is a dry fruit that splits open to release seeds, not a fleshy fruit with a stone inside. So the description of an outer fleshy layer with an inner stone fits a drupe.

4. The elbow and the knee are examples of which joints?

- A. Hinge joints
- B. Ball and Socket joints
- C. Pivot joints
- D. Saddle joints

The key idea is movement in one main direction. The elbow and knee mainly bend and straighten, like a door hinge, allowing flexion and extension with a single dominant axis of rotation. That simple back-and-forth motion is what defines a hinge joint. The elbow's primary action is between the upper arm bone and the forearm bone, and the knee primarily between the thigh bone and the shinbone, both designed to swing in one plane and be stabilized to limit other movements. Some extra motion can occur in nearby joints or when the knee is flexed, but the main function is hinge-like. Other joint types would let you move in multiple directions or rotate around an axis, which isn't the typical action of the elbow or knee. Ball-and-socket joints (shoulder, hip) spin and rotate freely; pivot joints (like the neck) rotate around a single axis; saddle joints allow a different combination of movements but aren't the primary action of these two joints.

5. What is the primary function of the respiratory system?

- A. Digestion of nutrients.
- B. Filtering blood.
- C. Gas exchange, supplying O₂ to the bloodstream and removing CO₂ from it.
- D. Hormone production.

Gas exchange is the primary function of the respiratory system. It supplies oxygen to the bloodstream and removes carbon dioxide from it. This happens in the lungs where tiny air sacs called alveoli provide a large surface area and very thin walls adjacent to capillaries. Oxygen diffuses from the air in the alveoli into the blood and binds to hemoglobin for transport to all body cells. Carbon dioxide, a waste product of metabolism, diffuses from the blood into the alveoli to be exhaled. The movement is driven by differences in partial pressures: O₂ is higher in the alveoli than in the blood, while CO₂ is higher in the blood than in the alveoli. The other options describe functions of different systems—digestion, blood filtration, and hormone production—not the lungs.

6. Which carpal bone has a distinct hook-like projection known as the hook of hamate?

- A. Hamate
- B. Capitate
- C. Trapezium
- D. Scaphoid

The hook-like projection is a distinctive feature of the hamate bone. This projection, called the hamulus or the hook of hamate, sticks out from the palmar side of the bone and helps form part of the tunnel (Guyon's canal) that the ulnar nerve and artery pass through. Among the carpal bones listed, only the hamate has this hook shape; the capitate has a rounded head, the trapezium has a saddle-shaped surface for the thumb, and the scaphoid has a prominent tubercle but not a hook. So the bone with the hook of hamate is the hamate.

7. Which carpal bone is sesamoid-like and lies within the tendon of the flexor carpi ulnaris?

A. Pisiform

B. Lunate

C. Scaphoid

D. Hamate

The lift in load and angle is achieved by a tendon-friendly feature called a sesamoid. In the wrist, the flexor carpi ulnaris tendon actually contains a small, pea shaped bone—the pisiform. This sesamoid-like bone sits within that tendon as it crosses the ulnar side of the wrist, changing the direction of pull and increasing the tendon's mechanical advantage for flexion. It also helps protect the tendon as it glides over the carpal bones. The other listed carpal bones—lunate, scaphoid, and hamate—are true bones of the wrist that form joints with neighboring bones; they are not embedded in a tendon as a sesamoid. So the bone that fits the description is the pisiform.

8. Rids the body of wastes

A. Excretory System

B. Respiratory System

C. Circulatory System

D. Integumentary System

Removing wastes from the body is the job of the excretory system. It works mainly through the kidneys, which filter blood to form urine and carry away nitrogenous wastes like urea, plus excess water and salts, helping maintain the body's chemical balance. This system includes the kidneys, ureters, bladder, and urethra, all coordinating to keep the internal environment clean and stable. Other systems contribute to waste handling too: the respiratory system expels carbon dioxide and some water vapor; the circulatory system transports wastes to disposal sites; the skin can excrete small amounts of waste via sweat. But the excretory system is the primary mechanism for ridding the body of wastes.

9. Which bone is the thigh bone?

A. Femur

B. Humerus

C. Cranium

D. Pectoralis major

The thigh bone is the femur. It's the longest and strongest bone in the body, running from the hip to the knee and bearing a lot of weight and leverage for movement. It's a long bone in the appendicular skeleton, specifically Design to connect the hip and knee joints. The humerus is the upper arm bone, the cranium forms the skull, and pectoralis major is a chest muscle, not a bone.

10. The primary purpose of fruits to a plant is to

- A. Produce seeds
- B. Scatter seeds**
- C. Protect seeds
- D. Provide energy

Fruits are evolved to help spread the plant's offspring. After fertilization, the ovary becomes fruit to protect the developing seeds and, more importantly, to aid dispersal. By becoming appealing, nutritious, or otherwise suited to travel—animals eat the fruit and later drop or excrete the seeds, or seeds are carried by wind or water—the plant increases the chances that its seeds land in new places rather than nearby. So the main role of fruits is to scatter seeds to new environments, with protection and providing nutrients being supportive but not the primary function.

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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://abekabiology3.examzify.com>

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

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