

Biology CLEP Prep Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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!

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Questions

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- 1. The phenomenon of the adaptation of bacteria and viruses to human beings is known as:**
 - A. Evolution**
 - B. Natural selection**
 - C. Obligate**
 - D. Antibiotic resistance**

- 2. The cell wall is found in what type of cells?**
 - A. Plant cells**
 - B. Bacterial cells**
 - C. Fungal cells**
 - D. Animal cells**

- 3. What is an example of a stochastic evolutionary process?**
 - A. Genomic convergence**
 - B. Gene flow**
 - C. Mutations**
 - D. Genetic drift**

- 4. What type of movement creates a net absorption of water?**
 - A. Osmosis**
 - B. Diffusion**
 - C. Active transport**
 - D. Bulk flow**

- 5. What is the main source of energy on Earth?**
 - A. Fossil fuels**
 - B. Nuclear reactions**
 - C. Photosynthesis**
 - D. Wind power**

- 6. If an organism is homozygous for a trait, what does this mean?**
 - A. It has two copies of the same allele**
 - B. It has two different alleles**
 - C. It is a carrier of a genetic disorder**
 - D. It is in a heterozygous state**

7. What type of cell division occurs in sexual reproduction?

- A. Mitosis**
- B. Meiosis**
- C. Binary Fission**
- D. Conjugation**

8. What type of molecule is primarily responsible for controlling the body's metabolic processes?

- A. DNA**
- B. Proteins**
- C. Lipids**
- D. ATP**

9. What type of cells are responsible for producing gametes?

- A. Germ cells**
- B. Motor cells**
- C. Plasma cells**
- D. Sensory cells**

10. of the following is true about homeostasis?

- A. t is the state of internal constancy of a cell**
- B. t is the process of maintaining stable equilibrium in a cell**
- C. t is the regulation of body temperature and the pH of a cell**
- D. t is the exchange of oxygen and carbon dioxide between cells**

Answers

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

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Explanations

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1. The phenomenon of the adaptation of bacteria and viruses to human beings is known as:

- A. Evolution**
- B. Natural selection**
- C. Obligate**
- D. Antibiotic resistance**

Bacteria and viruses are constantly evolving and developing new adaptations to survive in various environments. The process of developing resistance to antibiotics, which were originally used to treat their infections, is known as antibiotic resistance. Option A (Evolution) is incorrect as it is a broad term used to describe the gradual accumulation of genetic changes over time. Option B (Natural selection) is also incorrect as it refers to the process by which individuals with advantageous traits are more likely to survive and reproduce, while those with disadvantageous traits are less likely to do so. Option C (Obligate) is incorrect as it refers to organisms that are physically and physiologically dependent on other organisms to survive.

2. The cell wall is found in what type of cells?

- A. Plant cells**
- B. Bacterial cells**
- C. Fungal cells**
- D. Animal cells**

The cell wall is a rigid structure that provides protection and support for the cells. It is only found in plant cells because they are the only type of cells that need this additional layer for structure and support. Bacterial cells have a different cell wall structure that is not made of cellulose like in plant cells. Fungal cells do have a cell wall, but it is made of a different material called chitin. Animal cells, on the other hand, do not have a cell wall at all, but instead have a flexible cell membrane. This is why the most accurate answer is A, plant cells.

3. What is an example of a stochastic evolutionary process?

- A. Genomic convergence**
- B. Gene flow**
- C. Mutations**
- D. Genetic drift**

A stochastic evolutionary process refers to a process that is based on random chance rather than predetermined factors. While all of the options listed could potentially play a role in evolution, only genetic drift involves a random change in the frequency of certain genes within a population. Genomic convergence refers to the independent evolution of similar traits in different species, and is not solely based on chance. Gene flow involves the movement and exchange of genes between different populations, but is not considered a stochastic process as it is influenced by external factors such as migration patterns. Mutations are also not considered a stochastic process as they occur randomly but are subject to natural selection and other forces. Therefore, genetic drift is the best example of a stochastic evolutionary process among the given options.

4. What type of movement creates a net absorption of water?

- A. Osmosis**
- B. Diffusion**
- C. Active transport**
- D. Bulk flow**

Osmosis is the process that creates a net absorption of water. This is because during osmosis, water moves from an area of lower concentration to an area of higher concentration. In other words, water will move from an area with a lower number of water molecules to an area with a higher number of water molecules. This results in a net absorption of water. On the other hand, diffusion, active transport, and bulk flow all involve the movement of substances from areas of higher concentration to areas of lower concentration. Therefore, they do not cause a net absorption of water.

5. What is the main source of energy on Earth?

- A. Fossil fuels**
- B. Nuclear reactions**
- C. Photosynthesis**
- D. Wind power**

Photosynthesis is the process through which plants convert light energy from the sun into chemical energy, which is then used by other organisms as a source of food and ultimately becomes the main energy source for the planet. Fossil fuels, nuclear reactions, and wind power are all sources of energy that depend ultimately on the energy from the sun and are not the main source of energy on Earth. Fossil fuels are formed from decayed organic matter, nuclear reactions also rely on the decay of radioactive elements, and wind power is heavily influenced by the sun's energy patterns. Photosynthesis stands as the primary source of energy on Earth because it transforms light energy from the sun into a usable energy form for living organisms.

6. If an organism is homozygous for a trait, what does this mean?

- A. It has two copies of the same allele**
- B. It has two different alleles**
- C. It is a carrier of a genetic disorder**
- D. It is in a heterozygous state**

A homozygous organism means that it has two identical alleles for a specific trait. This is caused when the individual inherits the same allele from both parents. In this case, both alleles will have the same effect on the trait, leading to a consistent expression of the trait. The incorrect options are B) and D) because they both describe a state of heterozygosity, where the organism has two different alleles for a specific trait. Option C) is incorrect because being a carrier of a genetic disorder is not related to being homozygous for a trait.

7. What type of cell division occurs in sexual reproduction?

- A. Mitosis**
- B. Meiosis**
- C. Binary Fission**
- D. Conjugation**

B. Meiosis is the type of cell division that occurs in sexual reproduction. This process involves the production of gametes (sperm and egg cells) with half the number of chromosomes as the parent cell, resulting in genetic variation between offspring. A. Mitosis is the type of cell division that occurs in asexual reproduction, in which identical copies of cells are produced. C. Binary fission is a form of asexual reproduction in prokaryotic cells only, where the cells split into two identical copies. D. Conjugation is a process in which prokaryotic cells exchange genetic material, but it is not a form of cell division and occurs only in certain bacteria and protozoa.

8. What type of molecule is primarily responsible for controlling the body's metabolic processes?

- A. DNA**
- B. Proteins**
- C. Lipids**
- D. ATP**

Proteins are the primary molecules responsible for controlling the body's metabolic processes. DNA and lipids may also play a role, but they are not primarily responsible. ATP is an important energy molecule, but it is not responsible for controlling metabolic processes. Proteins have a unique structure that allows them to perform a variety of functions, including enzymatic and regulatory roles that are essential for metabolic processes. This makes them the most suitable and efficient type of molecule for controlling the body's metabolic processes.

9. What type of cells are responsible for producing gametes?

- A. Germ cells**
- B. Motor cells**
- C. Plasma cells**
- D. Sensory cells**

Gametes are reproductive cells, such as sperm and egg cells, that are responsible for passing on genetic information from parent to offspring. Germ cells are the only type of cells specifically designated for producing these gametes. Motor cells are responsible for movement, plasma cells are involved in immune responses, and sensory cells are responsible for receiving sensory information. Therefore, these options are not directly involved in the production of gametes and are not the correct answer for this question.

10. of the following is true about homeostasis?

- A. t is the state of internal constancy of a cell**
- B. t is the process of maintaining stable equilibrium in a cell**
- C. t is the regulation of body temperature and the pH of a cell**
- D. t is the exchange of oxygen and carbon dioxide between cells**

Homeostasis is the process by which organisms maintain a stable internal environment. Option A is incorrect because homeostasis applies to whole organisms, not just cells. Option C is incorrect because homeostasis involves more than just the regulation of body temperature and pH. It also encompasses the regulation of other factors such as blood sugar levels and water balance. Option D is incorrect because the exchange of oxygen and carbon dioxide between cells is part of cellular respiration, not homeostasis. So, option B is the most accurate answer as it accurately describes homeostasis as a process of maintaining stable equilibrium in a cell.

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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://biologycleppractice.examzify.com>

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

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