

NCHSE EOC Standard 1 Academic Foundation Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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

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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. Cancer is defined as which of the following?**
 - A. Clouding of the lens**
 - B. A malignant growth or tumor caused by abnormal and uncontrolled cell division**
 - C. A slowly progressive decline in mental abilities**
 - D. A chronic allergic disorder**

- 2. Which organ is located in the Left Lower Quadrant?**
 - A. Right kidney**
 - B. Appendix**
 - C. Left ovary**
 - D. Spleen**

- 3. Which system provides storage of minerals and blood cell production?**
 - A. Skeletal**
 - B. Muscular**
 - C. Digestive**
 - D. Endocrine**

- 4. In 24-hour time, 1:00 PM is written as which of the following?**
 - A. 1200 hours**
 - B. 1400 hours**
 - C. 1100 hours**
 - D. 1300 hours**

- 5. Which cavity holds the eyes?**
 - A. Nasal body cavity**
 - B. Oral body cavity**
 - C. Orbital body cavity**
 - D. Spinal body cavity**

- 6. Which organ is included in the alimentary canal?**
- A. Esophagus**
 - B. Liver**
 - C. Pancreas**
 - D. Gallbladder**
- 7. Which plane divides the body into left and right parts?**
- A. Transverse Plane**
 - B. Sagittal Plane**
 - C. Coronal Plane**
 - D. Midsagittal Plane**
- 8. What is the term for the head region?**
- A. Anterior**
 - B. Cephalic**
 - C. Posterior**
 - D. Caudal**
- 9. Which term refers to using adult or embryonic stem cells that can be made into specialized cells?**
- A. Immunotherapies**
 - B. Gene therapy**
 - C. Immunizations**
 - D. Stem cell research**
- 10. Which statement best defines anxiety?**
- A. A severe neurological disorder**
 - B. An emotional state of high energy, with the stress response as the body's reaction to it**
 - C. A respiratory condition**
 - D. A feeling of happiness and calm**

Answers

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

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Explanations

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1. Cancer is defined as which of the following?

A. Clouding of the lens

B. A malignant growth or tumor caused by abnormal and uncontrolled cell division

C. A slowly progressive decline in mental abilities

D. A chronic allergic disorder

Cancer is a disease of uncontrolled cell growth. In cancer, genetic changes cause cells to divide when they shouldn't and to ignore signals that normally stop growth or trigger cell death. This leads to a malignant growth or tumor, which can invade nearby tissues and spread to different parts of the body. The option describing a malignant growth or tumor caused by abnormal and uncontrolled cell division captures this idea most accurately. The other choices describe conditions that affect the eye, brain, or immune system and are not cancer.

2. Which organ is located in the Left Lower Quadrant?

A. Right kidney

B. Appendix

C. Left ovary

D. Spleen

Understanding abdominal quadrants helps you know where organs sit in the body. The left lower quadrant is the region on the lower left side of the abdomen and pelvis. An organ located there is the left ovary, which sits in the pelvic area on the left. The spleen is in the upper left quadrant near the stomach, the appendix is in the lower right, and the right kidney is mostly in the upper abdomen on the right side. So, the organ found in the left lower quadrant is the left ovary.

3. Which system provides storage of minerals and blood cell production?

A. Skeletal

B. Muscular

C. Digestive

D. Endocrine

Mineral storage and blood cell production are functions of the skeletal system. Bones store minerals like calcium and phosphorus, releasing them as needed to maintain mineral balance in the body. Inside many bones, bone marrow produces blood cells—red marrow generates red blood cells (and some white blood cells), supporting the body's blood supply. While muscles enable movement, the digestive system handles nutrient breakdown, and the endocrine system regulates hormones, none of which primarily cover mineral storage and blood cell production as the skeletal system does.

4. In 24-hour time, 1:00 PM is written as which of the following?

- A. 1200 hours**
- B. 1400 hours**
- C. 1100 hours**
- D. 1300 hours**

In the 24-hour clock, hours after noon are numbered 13 through 23. You add 12 to the hour for any time after 12:00 PM. So 1:00 PM becomes 13:00, written as 1300 hours. The minutes stay two digits, so 1300 hours means 1:00 PM. For quick reference: 1200 hours is noon, 1100 hours is 11:00 AM, and 1400 hours is 2:00 PM. The correct representation is 1300 hours.

5. Which cavity holds the eyes?

- A. Nasal body cavity**
- B. Oral body cavity**
- C. Orbital body cavity**
- D. Spinal body cavity**

Eyes sit in protective sockets called the orbital cavities in the skull. Each eye rests in its own orbit, so the orbital cavity is the space that holds the eyes. The nasal cavity houses the nose, the oral cavity houses the mouth, and the spinal cavity runs along the vertebral column containing the spinal cord. So the cavity that holds the eyes is the orbital cavity.

6. Which organ is included in the alimentary canal?

- A. Esophagus**
- B. Liver**
- C. Pancreas**
- D. Gallbladder**

The alimentary canal is the continuous tube that digests and transports food from the mouth to the anus. The esophagus is included because it is the muscular conduit that moves swallowed food downward to the stomach through peristaltic waves, forming part of that main tube. The other organs—liver, pancreas, and gallbladder—are accessory digestive organs; they help digestion by producing bile or enzymes, but they are not part of the main alimentary canal itself. So the esophagus is the organ that belongs to the canal.

7. Which plane divides the body into left and right parts?

- A. Transverse Plane
- B. Sagittal Plane**
- C. Coronal Plane
- D. Midsagittal Plane

The sagittal plane divides the body into left and right parts. It runs vertically from front to back, splitting the body along a side-to-side line. If it happens to go exactly down the middle, that special version is the midsagittal plane and it creates equal left and right halves. The key idea here is left-right separation, which is defined by the sagittal orientation. The transverse plane is horizontal and separates upper from lower parts, while the coronal plane divides front from back.

8. What is the term for the head region?

- A. Anterior
- B. Cephalic**
- C. Posterior
- D. Caudal

The head region is described using cephalic. This term comes from the Greek kephale, meaning head, and in anatomy it's used to indicate anything related to or located at the head. It's more specific to the head than the other terms: anterior points to the front of the body, posterior to the back, and caudal toward the tail or lower end. So when the question asks for the term for the head region, cephalic is the precise choice.

9. Which term refers to using adult or embryonic stem cells that can be made into specialized cells?

- A. Immunotherapies
- B. Gene therapy
- C. Immunizations
- D. Stem cell research**

The main idea here is that stem cells have the ability to become many different specialized cell types. Using adult or embryonic stem cells that can be directed to turn into specific, specialized cells is stem cell research. Embryonic stem cells are pluripotent, meaning they can become many different cell types, while adult stem cells are multipotent, limited to a narrower range of cells. Researchers study how to guide these cells to replace or repair damaged tissues, which is the essence of this field. The other terms refer to different ideas: immunotherapies work with the immune system to fight disease, gene therapy alters genetic material to treat conditions, and immunizations are vaccines that prevent disease.

10. Which statement best defines anxiety?

- A. A severe neurological disorder**
- B. An emotional state of high energy, with the stress response as the body's reaction to it**
- C. A respiratory condition**
- D. A feeling of happiness and calm**

Anxiety is best understood as an emotional state of worry or unease that triggers the body's stress response. When you feel anxious, your body activates arousal to prepare for potential challenges—things like a faster heartbeat, quicker breathing, tense muscles, and heightened alertness. The statement describing anxiety as an emotional state of high energy with the stress response as the body's reaction to it fits this mix of mental feeling and physical readiness. The other options describe things that don't match this experience: a severe neurological disorder is not what anxiety is, a respiratory condition focuses on breathing problems, and a feeling of happiness and calm is the opposite of anxiety.

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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://nchseeocstandard1acadfoundation.examzify.com>

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

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