

Digital Imaging Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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 processing parameter will put together multiple images into one single image for display?**
 - A. Image stitching**
 - B. Image fusion**
 - C. Overlay**
 - D. Mosaic creation**

- 2. Which statement best describes the relationship between overexposure and image quality in PSP imaging?**
 - A. Overexposure reduces the contrast resolution**
 - B. Overexposure increases the contrast resolution**
 - C. Overexposure has no effect**
 - D. Overexposure improves sharpness**

- 3. Which term describes the use of knowledge and critical thinking to make sound decisions?**
 - A. Data**
 - B. Wisdom**
 - C. Information**
 - D. Knowledge**

- 4. Which storage configuration is a dedicated network of storage devices that provides shared access over a network?**
 - A. Storage Area Network**
 - B. Network Attached Storage**
 - C. Direct Attached Storage**
 - D. Redundant Array of Independent Disks**

- 5. Which term represents observations or symbols of differences in nature?**
 - A. Data**
 - B. Information**
 - C. Knowledge**
 - D. Wisdom**

- 6. What device runs the start-up instructions during boot-up of the computer?**
- A. BIOS**
 - B. CPU**
 - C. RAM**
 - D. GPU**
- 7. What is the simplest network hardware device used to connect several computers?**
- A. Network hub**
 - B. Switch**
 - C. Router**
 - D. Modem**
- 8. Which type of monitor is most common in hospitals?**
- A. LCD**
 - B. CRT**
 - C. LED**
 - D. Plasma**
- 9. Too much mAs will cause quantum mottle.**
- A. True**
 - B. False**
 - C. Depends on technique**
 - D. Cannot be determined**
- 10. The energy released by the excited phosphor centers is emitted as which form of energy?**
- A. Light**
 - B. Heat**
 - C. Electrical energy**
 - D. X-rays**

Answers

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

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Explanations

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1. Which processing parameter will put together multiple images into one single image for display?

- A. Image stitching**
- B. Image fusion**
- C. Overlay**
- D. Mosaic creation**

Image stitching is the process of taking several overlapping photos and turning them into one seamless image for display, typically a panorama. It works by finding shared features between images, determining how they relate, warping the shots to a common projection, and blending the borders so you don't see seams. The outcome is a single composite image that can be viewed as one panoramic photo. This differs from overlay, which would just layer images on top of each other, and from image fusion, which combines data from different sources to enhance quality rather than creating a single cohesive image. Mosaic creation can also produce a larger image, but it often refers to tiling without the careful alignment and seam blending that produce a true panorama.

2. Which statement best describes the relationship between overexposure and image quality in PSP imaging?

- A. Overexposure reduces the contrast resolution**
- B. Overexposure increases the contrast resolution**
- C. Overexposure has no effect**
- D. Overexposure improves sharpness**

In PSP imaging, image quality is tied to how well the detector's gray scale can represent subtle differences in tissue densities. If exposure is excessive, many image pixels reach the upper end of the plate's dynamic range. When saturation occurs, those high-density signals lose their ability to differentiate small variations, so the range of gray levels that can separate adjacent tissues becomes compressed. That reduces contrast resolution—the ability to distinguish between tissues with similar attenuation. By contrast, underexposure mainly introduces noise (quantum mottle) and overall dimness, which harms visibility in a different way, but does not inherently flatten the gray scale as saturation does. Hence, overexposure tends to degrade the system's ability to resolve fine contrast, making the statement about reduced contrast resolution the most accurate reflection of PSP behavior.

3. Which term describes the use of knowledge and critical thinking to make sound decisions?

- A. Data
- B. Wisdom**
- C. Information
- D. Knowledge

Wisdom is the ability to apply knowledge through thoughtful judgment to make good decisions. It combines what you know with careful thinking, weighing options, potential consequences, and ethical or practical considerations in a given situation. While knowledge involves understanding and how to use information, wisdom adds prudent, context-aware decision-making that guides action. Data are raw facts, information is data given meaning, and knowledge is understanding how things work and how to apply that meaning. Wisdom sits above those, turning understanding into sound, well-reasoned choices.

4. Which storage configuration is a dedicated network of storage devices that provides shared access over a network?

- A. Storage Area Network**
- B. Network Attached Storage
- C. Direct Attached Storage
- D. Redundant Array of Independent Disks

Storage Area Network is a dedicated network that connects servers to storage devices, providing centralized, shared access to storage resources over the network. This setup keeps storage traffic separate and high-performing, so multiple servers can access the same storage as if it were a local disk, typically using block-level access with protocols like Fibre Channel or iSCSI. This differs from higher-level file sharing systems, where a NAS provides file-level access over IP to users, while direct attached storage remains attached to a single host, and RAID describes disk arrangements rather than a networked storage setup.

5. Which term represents observations or symbols of differences in nature?

- A. Data**
- B. Information
- C. Knowledge
- D. Wisdom

Observations or symbols of differences in nature are data. They are the raw, unprocessed facts you collect—numbers, measurements, counts, notes, or pixel values—taken from the natural world. Data don't carry meaning on their own; they're the basic material you start with. When you organize and interpret these data, you get information, such as a chart of averages or a trend line. From information, you gain knowledge when you understand patterns and relationships, and wisdom when you apply that knowledge to make good decisions. So data is the best answer because it refers to the raw observations and representations before any processing or interpretation.

6. What device runs the start-up instructions during boot-up of the computer?

- A. BIOS**
- B. CPU**
- C. RAM**
- D. GPU**

Startup instructions are executed by the firmware stored on the motherboard, commonly called BIOS (or UEFI in modern systems). When power is applied, the CPU begins by running code from this firmware. That code performs the Power-On Self-Test, initializes essential hardware, and then locates a bootable device to load the operating system. RAM and GPU are not responsible for starting the boot process; RAM is used after boot, and the GPU handles graphics once the OS is running. So the element that initiates boot and hands control to the OS is the BIOS/UEFI firmware on the motherboard.

7. What is the simplest network hardware device used to connect several computers?

- A. Network hub**
- B. Switch**
- C. Router**
- D. Modem**

Connecting several computers in the simplest way is through a basic network hub. A hub acts as a central junction with multiple ports and simply repeats any incoming signal to all the other ports. There's no smart filtering or decision-making about where data should go, so it's the most straightforward way to put multiple machines on one local network. In contrast, a switch adds intelligence by learning which devices are on the network and only sending data to the correct destination port, which helps prevent unnecessary traffic. A router connects different networks and routes traffic between them, not just within a single LAN. A modem links to an internet service provider and converts signals for access to the wider internet, not for connecting several computers together on a LAN. So, for the simplest, non-intelligent shared connection, a hub is the best fit.

8. Which type of monitor is most common in hospitals?

- A. LCD**
- B. CRT**
- C. LED**
- D. Plasma**

LCD monitors are the most common in hospitals. They are flat-panel, lightweight, and require far less space than older CRTs, which makes them ideal for crowded clinical environments and wall or arm mounting. They consume less power and emit less heat, contributing to a safer and more comfortable work area for staff and patients. The ability to display clear, sharp images and text is important for everyday tasks and for various medical displays, and LCDs are easier to clean and maintain in sterile settings. Plasma screens are bulkier, use more power, and can suffer from burn-in, so they aren't favored in medical environments. CRTs are bulky and outdated for most hospital applications. While LED backlighting is common in modern LCDs and improves brightness and efficiency, the widely used category people refer to in hospital settings remains LCD.

9. Too much mAs will cause quantum mottle.

- A. True
- B. False**
- C. Depends on technique
- D. Cannot be determined

Quantum mottle is the grainy noise that appears when too few photons reach the detector. The number of photons is set by mAs, so increasing mAs increases photon flux and reduces the random fluctuations that produce this noise. So, too much mAs does not cause quantum mottle; it actually helps suppress it (though it raises patient dose and can cause other problems like detector saturation or motion blur). The correct idea is that quantum mottle decreases with higher exposure, not increases.

10. The energy released by the excited phosphor centers is emitted as which form of energy?

- A. Light**
- B. Heat
- C. Electrical energy
- D. X-rays

When a phosphor is excited, the electrons are promoted to higher energy levels and then return to lower levels. If the relaxation is radiative, it releases energy as photons, which we perceive as light. The exact color (wavelength) depends on the dopant ions and host lattice, but the emitted energy from the excited centers is light. (Some energy can also be lost as heat through non-radiative paths, but the radiative emission from the centers is light.)

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://digitalimaging.examzify.com>

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

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