WESTERN GOVERNORS UNIVERSITY (WGU) NURS5745 C790 FOUNDATIONS IN NURSING INFORMATICS PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED 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.

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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!

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Questions

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1. What system development life cycle approach is characterized as a sequential approach?

A. Iterative approach

B. Agile development

C. Waterfall model

D. Spiral model

2. Which organization is responsible for setting standards for nursing informatics?

A. The American Nursing Informatics Association (ANIA)

B. The International Council of Nurses (ICN)

C. The American Nurses Association (ANA)

D. The National Institute of Health (NIH)

3. Which federal agency mandates meaningful use (MU) measures that include documenting human responses?

A. Food and Drug Administration (FDA)

B. Centers for Medicare and Medicaid Services (CMS)

C. National Institutes of Health (NIH)

D. Department of Health and Human Services (HHS)

4. The primary responsibility of the executive team in an EHR implementation is to:

A. Define technical specifications

B. Approve budgets and resources

C. Conduct system testing

D. Manage daily operations

5. How do nursing informatics specialists support evidence-based practice?

A. By limiting access to information

B. By providing outdated practices

C. By ensuring access to up-to-date information

D. By conducting lectures

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6. What does mHealth refer to?

A. The use of desktop computers in healthcare
B. The application of artificial intelligence in healthcare
C. The use of mobile devices to support public health and clinical practices
D. The implementation of telehealth services

7. How does the role of a nurse evolve with the integration of informatics?

A. It remains unchanged in practice
B. It shifts towards more technical competencies
C. It eliminates the need for patient care
D. It focuses only on administrative tasks

8. What is one significant impact of big data in nursing informatics?

A. Increases patient workload
B. Provides insights to improve patient outcomes
C. Decreases communication among healthcare providers
D. Limits the use of electronic health records

9. What is an important feature of user-centered design in health IT systems?

A. Cost-effectiveness
B. User-friendly interfaces
C. Technical jargon use
D. Minimal user feedback

10. Which phase involves designing the components of a system in the adaptive SDLC?

A. Planning phase
B. Design phase
C. Integration phase
D. Testing phase

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Answers

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

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Explanations

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1. What system development life cycle approach is characterized as a sequential approach?

A. Iterative approach

B. Agile development

C. Waterfall model

D. Spiral model

The Waterfall model is recognized as a sequential approach in the system development life cycle. This methodology consists of distinct phases such as requirements gathering, system design, implementation, testing, deployment, and maintenance. Each phase must be completed before moving on to the next, resembling a waterfall cascading down through each stage. The sequential nature of the Waterfall model means that once a phase is finished, it is not revisited; thus, it is essential that the requirements are thoroughly understood at the beginning to ensure a successful outcome. This model is often beneficial for projects where the scope and requirements are well-defined and are unlikely to change, allowing for a structured and easy-to-manage process. In contrast, other methodologies such as Agile and iterative approaches emphasize flexibility and allow for revisiting and altering phases as needed. The Spiral model combines elements of both iterative and sequential approaches but is structured around repeated cycles (spirals) to refine and reevaluate project components. Therefore, while these other models have their unique strengths, the Waterfall model distinctly stands out for its clear, linear progression through each phase of development.

2. Which organization is responsible for setting standards for nursing informatics?

A. The American Nursing Informatics Association (ANIA)

B. The International Council of Nurses (ICN)

C. The American Nurses Association (ANA)

D. The National Institute of Health (NIH)

The American Nurses Association (ANA) is the correct answer because it plays a crucial role in establishing standards and guidelines for the nursing profession, including the specialty of nursing informatics. The ANA has developed a framework that defines the scope and standards of practice for nursing informatics, ensuring that nurses are prepared to leverage health information technology effectively to improve patient care. The ANA's standards provide a foundation for nursing informatics by addressing essential competencies that nurses must possess in order to navigate and utilize technology within their practice effectively. This includes understanding data management, privacy issues, and patient engagement through technology. While other organizations like the American Nursing Informatics Association (ANIA) and the International Council of Nurses (ICN) contribute valuable insights and resources in the field of nursing informatics, it is the ANA that has the primary responsibility for developing the overarching standards that guide nursing practice as a whole.

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3. Which federal agency mandates meaningful use (MU) measures that include documenting human responses?

A. Food and Drug Administration (FDA)

B. Centers for Medicare and Medicaid Services (CMS)

C. National Institutes of Health (NIH)

D. Department of Health and Human Services (HHS)

The correct answer is the Centers for Medicare and Medicaid Services (CMS) because CMS is responsible for establishing and overseeing the meaningful use measures, which are designed to encourage healthcare providers to use electronic health records (EHRs) effectively. These measures focus on improving patient care through various criteria, one of which includes the documentation of human responses, ensuring that clinicians capture important patient data accurately and comprehensively in EHR systems. CMS plays a critical role in incentivizing hospitals and providers to adopt and utilize EHR technology, thus enhancing the overall quality of care and promoting the exchange of health information between providers. This aligns with their goals to improve healthcare outcomes and facilitate better management of patient information. The other agencies listed do not have the same level of direct involvement in the meaningful use measures related to EHR documentation and incentivization. For example, the Food and Drug Administration (FDA) primarily regulates drugs and medical devices, while the National Institutes of Health (NIH) focuses on medical research funding. The Department of Health and Human Services (HHS) provides broader oversight and policy direction in healthcare but does not specifically enforce the meaningful use measures—this is a primary function of CMS. Therefore, CMS is the agency that specifically mandates the requirements linked to meaningful use

4. The primary responsibility of the executive team in an EHR implementation is to:

A. Define technical specifications

B. Approve budgets and resources

C. Conduct system testing

D. Manage daily operations

The primary responsibility of the executive team during an Electronic Health Record (EHR) implementation is to approve budgets and resources. This is crucial because a successful EHR implementation requires significant financial investment and allocation of resources to ensure that all necessary tools, technology, and personnel are available. The executive team plays a key role in aligning the project with the organization's strategic goals, determining the level of funding, and ensuring that the project receives the necessary support throughout its lifecycle. By approving budgets and resources, the executive team enables the successful planning and execution of the implementation process, which is fundamental to achieving desired outcomes and advancing the organization's objectives in healthcare delivery. While defining technical specifications, conducting system testing, and managing daily operations are important tasks, these responsibilities typically fall to other specialized teams within the organization. The executive team's focus on financial and resource considerations is essential for driving the overall project forward.

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5. How do nursing informatics specialists support evidence-based practice?

A. By limiting access to information

B. By providing outdated practices

C. By ensuring access to up-to-date information

D. By conducting lectures

Nursing informatics specialists play a crucial role in supporting evidence-based practice by ensuring that healthcare professionals have access to the most current and relevant information. This access is vital for making informed clinical decisions, implementing the latest guidelines, and improving patient care outcomes. When nursing informatics specialists curate and manage data, they streamline the process of finding and utilizing the latest research, clinical guidelines, and best practices. This ensures that nurses and other healthcare providers can base their actions on the most accurate and reliable information available, thus promoting quality care and better patient safety. In contrast, limiting access to information, providing outdated practices, or merely conducting lectures does not contribute effectively to the empowerment of healthcare providers to utilize evidence in their daily practice. By maintaining and updating databases, facilitating access to research articles, and integrating evidence into clinical workflows, nursing informatics specialists are pivotal in bridging the gap between research and practice.

6. What does mHealth refer to?

A. The use of desktop computers in healthcare

B. The application of artificial intelligence in healthcare

C. The use of mobile devices to support public health and clinical practices

D. The implementation of telehealth services

mHealth refers to the use of mobile devices, such as smartphones and tablets, to support public health and clinical practices. This encompasses a wide range of health-related activities, including health education, monitoring and managing chronic diseases, providing health information, and facilitating communication between patients and healthcare providers. The emphasis on mobility means that mHealth can enhance access to healthcare services, improve patient engagement, and enable real-time data collection and monitoring, leading to better health outcomes. The significance of mHealth lies in its ability to reach populations in various settings, leveraging the widespread use of mobile technology. This makes it a powerful tool in modern healthcare, enhancing the delivery of services and the management of health information directly to users on their devices.

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7. How does the role of a nurse evolve with the integration of informatics?

A. It remains unchanged in practice

B. It shifts towards more technical competencies

C. It eliminates the need for patient care

D. It focuses only on administrative tasks

The role of a nurse evolves with the integration of informatics primarily by shifting towards more technical competencies. As healthcare systems increasingly incorporate technology and data management, nurses are required to adapt by developing skills in utilizing electronic health records, understanding data analytics, and maintaining proficiency with various health informatics tools. This evolution enhances their ability to provide care, as nurses can leverage technology to improve patient outcomes through better data access and management. They can analyze data trends, contribute to evidence-based practice, and engage in telehealth services. Moreover, this shift does not detract from their core responsibilities in patient care but rather enriches their role by empowering them with advanced tools and knowledge that contribute to a more effective and efficient healthcare delivery system. In this context, the emphasis on technical competencies signifies a broader understanding and application of informatics, enabling nurses to be more integral to healthcare teams and improving their capability to advocate for and care for patients effectively.

8. What is one significant impact of big data in nursing informatics?

A. Increases patient workload

B. Provides insights to improve patient outcomes

C. Decreases communication among healthcare providers

D. Limits the use of electronic health records

The significant impact of big data in nursing informatics is that it provides insights to improve patient outcomes. Big data encompasses vast amounts of information generated from various sources such as electronic health records, wearable health devices, and clinical trials. By analyzing this data, healthcare professionals can identify trends, patterns, and correlations that may not be apparent through traditional data analysis. These insights allow for evidence-based decision-making, which can lead to improved care strategies tailored to individual patient needs. For instance, nurses can track patient progress more effectively, predict potential health issues, and ultimately enhance the quality of care provided. By leveraging big data, nursing informatics contributes significantly to optimizing clinical workflows, making informed health interventions, and ensuring better overall patient care. The other choices do not reflect the positive contributions of big data in this context. For example, increasing patient workload or limiting the use of electronic health records would not foster an environment conducive to better patient outcomes. Additionally, misinformation about communication among healthcare providers could hinder collaboration rather than enhance it.

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9. What is an important feature of user-centered design in health IT systems?

A. Cost-effectiveness

B. User-friendly interfaces

C. Technical jargon use

D. Minimal user feedback

User-centered design prioritizes the needs, preferences, and limitations of end-users throughout the development process of health IT systems. An important feature of this design approach is the creation of user-friendly interfaces. This ensures that the systems are intuitive and easy to navigate, which is crucial for healthcare professionals who may need to use these systems under pressure or in time-sensitive situations. User-friendly interfaces enhance usability and can lead to better adoption rates, allowing healthcare providers to focus more on patient care rather than struggling with complex technology. In contrast, factors such as cost-effectiveness, the use of technical jargon, and minimal user feedback do not align with the core principles of user-centered design. While cost-effectiveness is important in overall project management, it should not compromise user experience. The use of technical jargon can create barriers to understanding, making systems less accessible to users. Additionally, minimal user feedback undermines the iterative process essential for creating systems that effectively meet user needs and improve overall functionality and satisfaction.

10. Which phase involves designing the components of a system in the adaptive SDLC?

A. Planning phase

B. Design phase

C. Integration phase

D. Testing phase

The design phase is where the specifics of the system's components are outlined and developed. During this phase, information gathered during the previous phases is transformed into detailed specifications, blueprints, or designs that serve as a guide for building the system. This includes making decisions about how the various components of the system will interact, defining software architecture, and establishing user interfaces, ensuring they align with users' needs and system requirements. Each aspect of the design phase is critical as it sets the foundation for the subsequent phases, such as integration and testing. An effective design phase ensures that the system not only meets functional requirements, but also performs efficiently and is user-friendly. In the context of the adaptive Software Development Life Cycle (SDLC), this phase is crucial for successfully responding to changing requirements and ensuring adaptability in system design to accommodate future needs.

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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:

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

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