

# NURSING INFORMATICS AND THE FOUNDATION OF KNOWLEDGE 4TH EDITION MCGONIGLE TEST BANK

## Chapter 1 Nursing Science and the Foundation of Knowledge

The nurse understands that nursing informatics is recognized as a specialty area of practice by which statement?

1. Research priorities for nursing informatics include the development of a standard nursing language and the development of databases for clinical information.
2. A formal educational program at the master's level must be completed before a nurse is eligible to sit for the credentialing examination.
3. As a differentiated practice, nursing informatics is focused upon the client, the environment, health, and the nurse.
4. There is a need for nursing informatics interests to gain representation by work groups and organizations within the United States.

**Correct Answer: 1**

**Rationale 1:** The development of research priorities is a key point in a specialty practice. Although degrees at the master's level are available, the degree required for credentialing is typically at the bachelor's level and includes experience in the field. Current demands for safer, cost-effective, quality care require evidence of the best practices supported by research.

**Rationale 2:** Such a formal educational program does not necessarily mean a specialty area of practice. Although degrees at the master's level are available, the degree required for credentialing is typically at the bachelor's level and includes experience in the field. The development of research priorities is a key point in a specialty practice.

**Rationale 3:** Your chosen response refers to the entire discipline of nursing. The specialty of nursing informatics integrates nursing science, computer science, and information science to manage and communicate data, information, knowledge, and wisdom into nursing practice. The development of research priorities is a key point in a specialty practice.

**Rationale 4:** There are many work groups in the United States related to informatics that focus on the specialty of informatics practice. One example is the Nursing Informatics Special Interest Group of the International Medical Informatics Association. The development of research priorities is a key point in a specialty practice.

**Global Rationale:**

**Cognitive Level:** Understanding

**Client Need:** Safe Effective Care Environment

**Client Need Sub:** Management of Care

**Nursing/Integrated Concepts:** Nursing Process: Assessment

**Learning Outcome:**

**Question 2**

**Type:** MCSA

Which statement by the nurse verifies that the nurse is "information literate"?

1. "I understand how to search for a website and evaluate its usefulness for health care needs."
2. "I utilize databases in the health care setting to input client information such as skin condition."
3. "I use email over the Internet to correspond with clients and provide information."
4. "I can use software applications such as word processing, spreadsheets, and presentations."

**Correct Answer: 1**

**Rationale 1:** Information literacy necessitates that nurses have the ability to find, evaluate, and effectively use information. The other answers are examples of computer literacy but do not have the higher functions of information literacy.

**Rationale 2:** Your chosen response is an example of computer literacy, but it does not have the higher functions of information literacy. Information literacy necessitates that nurses have the ability to find, evaluate, and effectively use information.

**Rationale 3:** Your chosen response is an example of computer literacy but, it does not have the higher functions of information literacy. Information literacy necessitates that nurses have the ability to find, evaluate, and effectively use information.

**Rationale 4:** This answer is an example of computer literacy but, it does not have the higher functions of information literacy. Information literacy necessitates that nurses have the ability to find, evaluate, and effectively use information.

**Global Rationale:**

**Cognitive Level:** Understanding

**Client Need:** Safe Effective Care Environment

**Client Need Sub:** Management of Care

**Nursing/Integrated Concepts:** Nursing Process: Planning

**Learning Outcome:**

**Question 3**

**Type:** MCSA

The nurse gathers much data when caring for clients. Which is an example of the higher-level "information" useful in caring for clients?

1. The vital signs are BP of 130/70, HR of 88, RR of 24, temperature of 98.8 degrees F., and oxygen saturation of 98%.
2. Lab work results include an electrolyte panel and complete blood count with differential.
3. The client is a widowed 64-year-old black male admitted with prostatitis.
4. After receiving Rocephin (ceftriaxone sodium) 1.0 gram IV yesterday, the client reported feeling better today.

**Correct Answer:** 4

**Rationale 1:** Your chosen response is an example of having pieces of data without interpretation. "Information" necessitates that the nurse interpret and structure the results of clinical data into information.

**Rationale 2:** Your chosen response is an example of having pieces of data without interpretation. "Information" necessitates that the nurse interpret and structure the results of clinical data into information.

**Rationale 3:** Your chosen response is an example of having pieces of data without interpretation. "Information" necessitates that the nurse interpret and structure the results of clinical data into information.

**Rationale 4:** "Information" necessitates that the nurse interpret and structure clinical data into information. It can then be used to aid clinical decision making and client monitoring. All other responses included pieces of data without interpretation.

**Global Rationale:**

**Cognitive Level:** Understanding

**Client Need:** Safe Effective Care Environment

**Client Need Sub:** Management of Care

**Nursing/Integrated Concepts:** Nursing Process: Assessment

**Learning Outcome:**

**Question 4**

**Type:** MCSA

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Which statement best distinguishes the difference between information literacy and computer literacy?

1. Information literacy is unnecessary in health care whereas computer literacy provides the basis for computer order entry.
2. Information literacy is the foundation of the EHR whereas computer literacy helps the nurse to access data.
3. A nurse can extrapolate data with computer literacy and not information skills.
4. Information literacy forms the basis for ongoing learning whereas computer literacy refers to a familiarity with the use of personal computers.

**Correct Answer: 4**

**Rationale 1:** Computer literacy is a popular term used to refer to a familiarity with the use of personal computers, including the use of software tools such as word processing, spreadsheets, databases, presentation graphics, and e-mail. The majority of students admitted to nursing schools now enter with some level of computer literacy.

**Rationale 2:** Computer literacy is a popular term used to refer to a familiarity with the use of personal computers, including the use of software tools such as word processing, spreadsheets, databases, presentation graphics, and e-mail. The majority of students admitted to nursing schools now enter with some level of computer literacy.

**Rationale 3:** Computer literacy is a popular term used to refer to a familiarity with the use of personal computers, including the use of software tools such as word processing, spreadsheets, databases, presentation graphics, and e-mail. The majority of students admitted to nursing schools now enter with some level of computer literacy.

**Rationale 4:** Computer literacy is a popular term used to refer to a familiarity with the use of personal computers, including the use of software tools such as word processing, spreadsheets, databases, presentation graphics, and e-mail. The majority of students admitted to nursing schools now enter with some level of computer literacy.

**Global Rationale:**

**Cognitive Level:** Analyzing

**Client Need:** Safe Effective Care Environment

**Client Need Sub:** Management of Care

**Nursing/Integrated Concepts:** Nursing Process: Assessment

**Learning Outcome:**

**Question 5**

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**Type:** MCSA

Which statement indicates the appropriate level of informatics competencies to the correct nurse?

1. A nurse informatics specialist extrapolates data to develop best practice model for indwelling catheter care.
2. The novice nurse using a spreadsheet to document medication reactions.
3. An experienced staff nurse creates databases employing SNOMED.
4. A beginning nurse utilizes the Internet to integrate multidisciplinary languages.

**Correct Answer:** 1

**Rationale 1:** The nurse informatics specialist has the ability and education to access data and create a model of excellence based on the findings.

**Rationale 2:** According to research, nurses are graduating from programs without experience with databases, spreadsheets, and statistical packages. There is a learning curve from graduation to comfort with the information system and its capabilities.

**Rationale 3:** An experienced staff nurse does not have the skills to create a database using a standardized language.

**Rationale 4:** Beginning nurses are comfortable with basic skills and should be able to retrieve information from the system, as well as interpret data. Your chosen response is not an example of the competencies required for the informatics specialist; its level is too high.

**Global Rationale:**

**Cognitive Level:** Understanding

**Client Need:** Safe Effective Care Environment

**Client Need Sub:** Management of Care

**Nursing/Integrated Concepts:** Nursing Process: Assessment

**Learning Outcome:**

**Question 6**

**Type:** MCSA

Which statement regarding pressures that drive the health care delivery system today is not accurate?

1. The current and projected nursing shortage may be eliminated by instituting technology enhancements in the acute care setting.

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2. Evidence-based practice is supported with technology that enables the health care provider to utilize up-to-date research findings.
3. Medication errors and adverse events may be reduced with the implementation of computerized physician order entry (CPOE).
4. Managed care may utilize disease management to identify clients with chronic conditions, and treat them effectively to minimize complications and cost.

**Correct Answer: 1**

**Rationale 1:** Although the nursing shortage may not be eliminated with information technology, the probability that errors may be reduced with the implementation of technology that enables the health care provider to double check medication administration may help with client safety.

**Rationale 2:** Although the nursing shortage may not be eliminated with information technology, the probability that errors may be reduced with the implementation of technology that enables the health care provider to double check medication administration may help with client safety.

**Rationale 3:** Your chosen response is an example of a statement that is indeed accurate. The one statement that is not accurate is the one about eliminating the current and projected nursing shortage by instituting technology enhancements. Although the nursing shortage may not be eliminated with information technology, the probability that errors may be reduced with the implementation of technology that enables the health care provider to double check medication administration may help with client safety.

**Rationale 4:** Your chosen response is an example of a statement that is indeed accurate. The one statement that is not accurate is the one about eliminating the current and projected nursing shortage by instituting technology enhancements. Although the nursing shortage may not be eliminated with information technology, the probability that errors may be reduced with the implementation of technology that enables the health care provider to double check medication administration may help with client safety.

**Global Rationale:**

**Cognitive Level:** Analyzing

**Client Need:** Safe Effective Care Environment

**Client Need Sub:** Management of Care

**Nursing/Integrated Concepts:** Nursing Process: Assessment

**Learning Outcome:**

**Question 7**

**Type:** MCSA

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Describe at least three factors in the current healthcare delivery system that drive the implementation of information technology in the acute care setting.

1. Patient safety
2. Nursing shortage
3. Evidence-based practice
4. Increased numbers of digital natives in nursing practice

**Correct Answer: 4**

**Rationale 1:** Patient safety, nursing shortage, managed care, and evidenced based practice are all factors that impact the acceptance and implementation of information technology in the acute care setting.

**Rationale 2:** Patient safety, nursing shortage, managed care, and evidenced based practice are all factors that impact the acceptance and implementation of information technology in the acute care setting.

**Rationale 3:** Patient safety, nursing shortage, managed care, and evidenced based practice are all factors that impact the acceptance and implementation of information technology in the acute care setting.

**Rationale 4:** Patient safety, nursing shortage, managed care, and evidenced based practice are all factors that impact the acceptance and implementation of information technology in the acute care setting. Digital natives may be more comfortable with technology, but they are not the driving force toward change.

**Global Rationale:**

**Cognitive Level:** Understanding

**Client Need:** Safe Effective Care Environment

**Client Need Sub:** Management of Care

**Nursing/Integrated Concepts:** Nursing Process: Implementation

**Learning Outcome:**

**Question 8**

**Type:** MCSA

Which action indicates the nurse is functioning as a knowledge worker?