

Nursing Entrance Exam (NEX) Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

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- 1. What is a significant advantage of using simulation in nursing education?**
 - A. It reduces the need for live patients**
 - B. It allows students to practice clinical skills in a safe environment**
 - C. It guarantees job placements**
 - D. It lowers tuition costs for nursing schools**
- 2. What process returns glucose filtered from the blood in the kidney nephron to the tissue fluid?**
 - A. Active transport**
 - B. Pinocytosis**
 - C. Osmosis**
 - D. Phagocytosis**
- 3. What is the main purpose of analyzing peanut sizes and counts in biology class?**
 - A. To understand agriculture practices**
 - B. To assess genetic diversity**
 - C. To demonstrate problem-solving skills**
 - D. To practice measurement techniques**
- 4. Which of the following is a key critical thinking skill in nursing?**
 - A. Emotional reasoning**
 - B. Making assumptions without evidence**
 - C. Evaluating patient information and treatment options**
 - D. Relying solely on the opinions of seniors**
- 5. Give an example of how a nurse can advocate for a patient.**
 - A. By following hospital policy strictly**
 - B. By communicating the patient's needs and preferences to the healthcare team**
 - C. By adjusting the patient's medication as they see fit**
 - D. By prioritizing their personal opinions over the patient's**

- 6. In the context of a hydra reacting to a stimulus, what role does dilute nitric acid play?**
- A. A stimulus**
 - B. A response**
 - C. An impulse**
 - D. A hormone**
- 7. How does stress management benefit nurses in their practice?**
- A. It allows for more time off from work**
 - B. It helps maintain personal well-being and improve patient care quality**
 - C. It reduces the need for continuing education**
 - D. It ensures higher salaries for nurses**
- 8. To observe the endoplasmic reticulum in a cell, which instrument would a scientist most likely use?**
- A. Dissecting instruments**
 - B. An electron microscope**
 - C. An ultracentrifuge**
 - D. A light microscope**
- 9. Which atom arrangement is characteristic of all alcohols?**
- A. C=O**
 - B. C-OH**
 - C. C-O-C**
 - D. C=C**
- 10. What is the significance of patient education in nursing?**
- A. It is a requirement for nursing graduation**
 - B. To ensure all patients understand their medications**
 - C. To empower patients to make informed health decisions and promote adherence to treatment plans**
 - D. It enhances nursing job satisfaction**

Answers

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

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Explanations

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1. What is a significant advantage of using simulation in nursing education?

- A. It reduces the need for live patients**
- B. It allows students to practice clinical skills in a safe environment**
- C. It guarantees job placements**
- D. It lowers tuition costs for nursing schools**

Using simulation in nursing education presents a significant advantage as it provides students with the opportunity to practice clinical skills in a safe environment. Simulated scenarios allow learners to engage in realistic patient care situations without the fear of causing harm to actual patients. This controlled setting helps students build confidence in their skills, make critical decisions, and experience a wide range of clinical scenarios, including rare events they may not encounter during traditional clinical placements. Such practice is crucial for developing competence in technical skills, communication, and team collaboration, which are vital for successful nursing practice. Additionally, the ability to repeat simulations allows students to learn from their mistakes and refine their techniques, promoting deeper learning and retention of knowledge. This advantage is especially important in nursing education, where hands-on experience is essential, yet may be limited by the availability of clinical placements or the varying complexity of real-life situations. The feedback provided during simulation exercises can also enhance the learning process, further solidifying the skills acquired.

2. What process returns glucose filtered from the blood in the kidney nephron to the tissue fluid?

- A. Active transport**
- B. Pinocytosis**
- C. Osmosis**
- D. Phagocytosis**

Active transport is the correct process that returns glucose filtered from the blood in the kidney nephron to the tissue fluid. This is essential in the renal system, specifically within the proximal convoluted tubule of the nephron, where glucose reabsorption occurs. During filtration, glucose is one of the substances that passes through the glomerulus into the Bowman's capsule. However, glucose is a vital energy source for the body, and its loss through urine would be detrimental. Therefore, the renal tubules have mechanisms to actively transport glucose back into the bloodstream. This process requires energy in the form of ATP, as glucose molecules are moved against their concentration gradient. Specialized transporter proteins, such as sodium-glucose co-transporters (SGLTs), facilitate this active transport by coupling glucose reabsorption with sodium ions, which are also reabsorbed. The other options refer to different mechanisms. Pinocytosis involves the ingestion of liquid into cells by the budding of small vesicles from the cell membrane, which is not how glucose is transported in this context. Osmosis is a passive movement of water across a selectively permeable membrane driven by concentration gradients, which does not directly pertain to glucose transport. Phagocytosis entails the engulfing of

3. What is the main purpose of analyzing peanut sizes and counts in biology class?

- A. To understand agriculture practices**
- B. To assess genetic diversity**
- C. To demonstrate problem-solving skills**
- D. To practice measurement techniques**

Analyzing peanut sizes and counts serves primarily to assess genetic diversity. By examining these physical traits, students can gather data that may indicate variations among different peanut cultivars or populations. This analysis can reveal insights about the genetic variation that exists within a species, as differences in size and quantity could be linked to underlying genetic differences. Understanding genetic diversity is crucial in fields like agriculture and conservation biology, as it helps in breeding programs and maintaining healthy ecosystems. The other options, while they may touch upon relevant skills or concepts, do not capture the core focus of the exercise. Understanding agriculture practices is more about the cultivation and management of crops rather than genetic analysis. Demonstrating problem-solving skills is a competency that may be developed during the activity, but it is not the primary goal. Practicing measurement techniques is a valuable skill, yet it serves as a means to an end rather than the main objective of analyzing peanut sizes and counts in the context of biology class.

4. Which of the following is a key critical thinking skill in nursing?

- A. Emotional reasoning**
- B. Making assumptions without evidence**
- C. Evaluating patient information and treatment options**
- D. Relying solely on the opinions of seniors**

Evaluating patient information and treatment options is a fundamental critical thinking skill in nursing. This process involves carefully assessing all relevant data about a patient's condition, which encompasses their medical history, current symptoms, and any test results. By critically analyzing this information, nurses can make informed decisions regarding patient care, understanding the implications and potential outcomes of various treatment options. This skill ensures that nurses not only apply their knowledge effectively but also consider the patient's unique context and preferences, leading to tailored and effective interventions. In contrast, emotional reasoning may lead to biases and subjective interpretations that do not necessarily align with clinical evidence. Making assumptions without evidence undermines the nursing process, potentially putting patient safety at risk. Relying solely on the opinions of seniors does not encourage independent thinking or the necessary adaptability required in nursing practice, as it is essential for nurses to develop their critical thinking skills and make well-informed choices based on evidence and rational analysis.

5. Give an example of how a nurse can advocate for a patient.

A. By following hospital policy strictly

B. By communicating the patient's needs and preferences to the healthcare team

C. By adjusting the patient's medication as they see fit

D. By prioritizing their personal opinions over the patient's

Advocating for a patient is a fundamental role of a nurse and involves representing and supporting the patient's interests within the healthcare system. When a nurse communicates the patient's needs and preferences to the healthcare team, they ensure that the patient's voice is heard and that care is tailored to the individual's values and desires. This action not only fosters a collaborative environment but also enhances patient autonomy and satisfaction. In this context, effective advocacy includes actively listening to the patient, understanding their unique circumstances, and bringing those insights to the interdisciplinary team. By doing so, the nurse helps bridge any gaps in communication and ensures that the patient receives consistent, respectful, and personalized care. The other choices reflect actions that do not align with the advocacy role. Strictly following hospital policy may sometimes overlook the individual needs of the patient. Adjusting medication independently could compromise patient safety and does not involve advocating for their best interests. Prioritizing personal opinions over the patient's contradicts the essence of advocacy, which is centered on championing the patient's wishes and rights in the care process.

6. In the context of a hydra reacting to a stimulus, what role does dilute nitric acid play?

A. A stimulus

B. A response

C. An impulse

D. A hormone

In the context of a hydra reacting to a stimulus, dilute nitric acid serves as a stimulus because it initiates a response from the hydra. When the dilute nitric acid comes into contact with the hydra's body, it elicits a reaction, typically resulting in behaviors such as contraction or retraction. This is similar to how organisms respond to various environmental changes or substances. In this scenario, the hydra detects the presence of the acid, and the reaction that follows is part of its adaptive mechanism to perceive and respond to external factors. It is important to differentiate this from other options; a response is the action or change that occurs as a result of the stimulus, an impulse refers to the electrical signal that travels in the nervous system, and a hormone is a chemical messenger that travels through the bloodstream to exert effects on different parts of the body. Therefore, while all these elements are related to how an organism interacts with its environment, the key role of dilute nitric acid in this situation is as the initial stimulus triggering the hydra's reactive behavior.

7. How does stress management benefit nurses in their practice?

- A. It allows for more time off from work**
- B. It helps maintain personal well-being and improve patient care quality**
- C. It reduces the need for continuing education**
- D. It ensures higher salaries for nurses**

Stress management is crucial for nurses as it directly influences both their personal well-being and the quality of care they provide to patients. When nurses effectively manage stress, they experience enhanced mental and emotional health, which is vital in a demanding field such as nursing. This improvement in personal well-being leads to increased job satisfaction, reduced burnout, and better overall morale. Additionally, a nurse who is in a good mental state is more likely to be focused, attentive, and compassionate, which translates to improved patient care. Being able to handle stress can lead to better decision-making and efficiency in the clinical environment, ultimately benefiting patients' health outcomes. Therefore, the ability to manage stress is not just a personal advantage but is also integral to sustaining high standards of patient care in the healthcare setting. This holistic approach to stress management underscores its importance in the nursing profession, emphasizing how interconnected a nurse's well-being is with their ability to care for others effectively.

8. To observe the endoplasmic reticulum in a cell, which instrument would a scientist most likely use?

- A. Dissecting instruments**
- B. An electron microscope**
- C. An ultracentrifuge**
- D. A light microscope**

The endoplasmic reticulum (ER) is a complex, membrane-bound organelle found within eukaryotic cells. To observe structures at the level of the endoplasmic reticulum, a scientist would need an instrument that provides the necessary resolution to visualize these small organelles. An electron microscope is specifically designed to achieve high magnifications and resolutions that surpass those of light microscopes, allowing for the detailed visualization of cellular components, including the ER. Light microscopes, while useful for observing larger cellular structures, do not have the resolution to clearly view the fine details of the endoplasmic reticulum due to the limits imposed by the wavelength of visible light. Dissecting instruments are typically used for macroscopic observation and manipulation of tissues or organisms rather than for cell structures. An ultracentrifuge is a tool used to separate cellular components based on their density but does not provide any direct visual observation of structures like the ER. Thus, the electron microscope is the appropriate choice for studying the endoplasmic reticulum in detail.

9. Which atom arrangement is characteristic of all alcohols?

- A. C=O
- B. C-OH**
- C. C-O-C
- D. C=C

The characteristic arrangement for all alcohols is the presence of a hydroxyl group, which is represented as C-OH. This functional group consists of a carbon atom (C) bonded to an oxygen atom (O), which in turn is bonded to a hydrogen atom (H). This arrangement is essential because it defines the chemical behavior of alcohols, influencing their solubility, reactivity, and interactions with other molecules. Alcohols are primarily recognized by their ability to form hydrogen bonds due to this hydroxyl group, which significantly affects their physical properties, such as boiling points and solubility in water. The presence of C-OH is what differentiates alcohols from other organic compounds that do not contain this particular functional group. Therefore, identifying the presence of this arrangement is key to understanding the chemistry of alcohols.

10. What is the significance of patient education in nursing?

- A. It is a requirement for nursing graduation
- B. To ensure all patients understand their medications
- C. To empower patients to make informed health decisions and promote adherence to treatment plans**
- D. It enhances nursing job satisfaction

The significance of patient education in nursing primarily lies in its ability to empower patients to make informed health decisions and promote adherence to treatment plans. This approach recognizes that when patients understand their conditions, treatment options, and the importance of following medical instructions, they can take an active role in managing their health. Educating patients helps to enhance their knowledge about medications, potential side effects, and self-care measures, which can lead to better health outcomes. When patients are well-informed, they are more likely to comply with prescribed therapies, adopt healthy lifestyle changes, and engage proactively in their care. Enhanced adherence can reduce hospital readmissions and improve overall patient satisfaction, which is beneficial not only for the patient but also for the healthcare system as a whole. While other options mention important aspects of nursing, such as requirements for graduation or job satisfaction, they do not capture the transformative potential that effective patient education holds for both patients and the healthcare process.