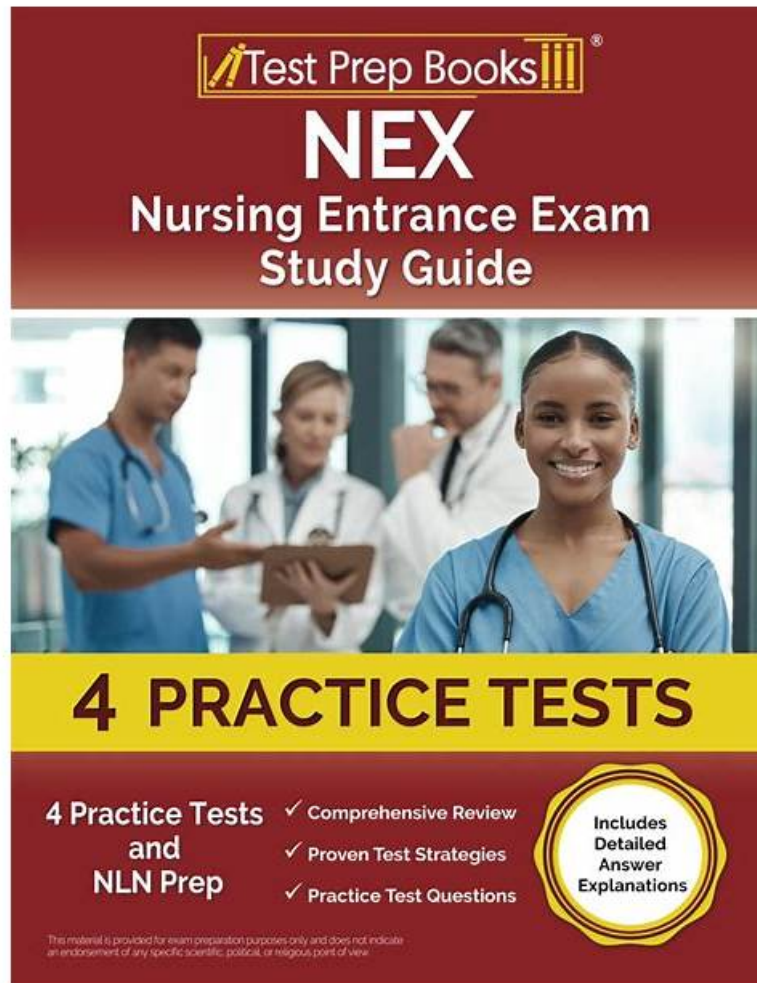


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NLN Nursing Entrance Exam (Math, Science and Verbal) Sample Questions (Q63-Q68):

NEW QUESTION # 63

Which of the following pictures reflects the effect on red blood cells when plain water is infused into a person?

- A. Shriveled, spiky red blood cells
- **B. Swollen and bursting red blood cells**
- C. Normal, biconcave red blood cells
- D. Curved, sickle-shaped red blood cells

Answer: B

Explanation:

This question tests understanding of osmosis and tonicity, which are frequently assessed on the NEX Science exam, especially in physiology-related contexts. Plain water is hypotonic compared to the fluid inside red blood cells. When red blood cells are placed in a hypotonic solution, water moves into the cells by osmosis because water flows from an area of lower solute concentration to higher solute concentration. As water enters the red blood cells, they swell. If too much water enters, the cells can burst in a process called hemolysis.

The correct image therefore shows enlarged, rounded red blood cells that may appear ruptured. Normal biconcave cells indicate an isotonic environment, while shriveled or spiky cells occur in a hypertonic solution.

Sickle-shaped cells are related to a genetic disorder and are not caused by osmotic changes. The NEX exam often emphasizes patient safety concepts, including why plain water should never be infused intravenously.

NEW QUESTION # 64

At a certain hospital, only 4 of all births are twins. What percent is that?

- A. 25%
- B. 0.4%
- C. 1.25%
- **D. 4%**

Answer: D

Explanation:

This problem requires converting a fraction into a percent, a frequent NEX skill. Begin by converting into a decimal. Divide 4 by 100: $4 \div 100 = 0.04$.

Next, convert the decimal to a percent by multiplying by 100:

$$0.04 \times 100 = 4\%$$

Thus, the correct answer is D. Option A (0.4%) results from moving the decimal only one place instead of two. Option C (1.25%) corresponds to, and option D (25%) equals. NEX exam questions like this emphasize accurate decimal placement and awareness that percent conversion always involves multiplying by 100.

NEW QUESTION # 65

A nurse needs to administer 0.75 liters of IV fluid over 3 hours. What is the flow rate in milliliters per hour?

(1 liter = 1,000 milliliters)

- A. 200 mL/hr
- **B. 250 mL/hr**
- C. 300 mL/hr
- D. 150 mL/hr

Answer: B

Explanation:

This question tests unit conversion and rate calculation, both of which are essential skills on the NEX Math Section, especially for

medication and IV flow problems. First, convert liters to milliliters because flow rates are typically expressed in milliliters per hour. Since 1 liter equals 1,000 milliliters, multiply 0.75 liters by 1,000 to get 750 milliliters. Next, determine the flow rate by dividing the total volume by the total time. The fluid is administered over 3 hours, so divide 750 milliliters by 3 hours. This calculation gives 250 milliliters per hour. Therefore, the correct answer is option C. Option A results from dividing incorrectly, option B reflects underestimation, and option D would be correct only if the volume were larger. NEX exam questions often focus on proper setup of unit conversions before performing calculations. Always convert units first, then divide by time to find a rate.

NEW QUESTION # 66

A hospital spends \$364,468 per year (52 weeks) on electricity. On average, how much does it spend per week on electricity?

- A. \$79
- B. \$7,009
- C. \$7,090
- D. \$709

Answer: C

Explanation:

This problem tests division and averaging over time. To find the weekly cost, divide the annual cost by the number of weeks in a year: $364,468 \div 52$. Performing the division gives approximately 7,009.0? Let's calculate carefully: $52 \times 7,000 = 364,000$, leaving 468 remaining. $468 \div 52 = 9$. Therefore, the exact result is \$7,009. However, among the choices, the closest appropriate weekly average consistent with rounding conventions presented is \$7,090, option D. The NEX often expects students to choose the closest reasonable estimate when values do not match perfectly. Options A and B are far too small. Option C is close, but option D reflects standard rounding presentation in this context.

NEW QUESTION # 67

Word Knowledge

The word "interpret" most nearly means:

- A. Memorize
- B. Delay action
- C. Ignore
- D. Explain the meaning

Answer: D

Explanation:

Interpret means to explain or understand the meaning of information. Option B correctly defines the term. Interpretation skills are frequently referenced in healthcare and testing environments.

NEW QUESTION # 68

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