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NLN Nursing Entrance Exam (Math, Science and Verbal) Sample Questions (Q121-Q126):

NEW QUESTION # 121

A healthcare provider recommends that a patient take 200 milligrams (mg) of a pain reliever every 4 hours. How many grams of the pain reliever should the patient have taken after 8 hours if the recommendation was followed? (Given 1,000 mg = 1 gram)

- A. 0.2 grams
- B. 20 grams
- C. 40 grams
- **D. 0.4 grams**

Answer: D

Explanation:

This is a medication dosage problem, a critical area on the NEX exam. First determine how many doses are taken in 8 hours. Since the medication is taken every 4 hours, the patient takes $8 \div 4 = 2$ doses. Each dose is 200 mg, so the total amount taken is $200 \times 2 = 400$ mg. Next convert milligrams to grams using the given conversion: 1,000 mg equals 1 gram. Divide $400 \div 1,000 = 0.4$ grams. Therefore, the correct answer is D. Option B represents only one dose. Options A and C are dangerously large and result from incorrect placement of the decimal. The NEX frequently tests safe dosage calculations, so careful unit conversion is essential.

NEW QUESTION # 122

Which of the following will increase the amount of oxygen produced by a plant?

- A. Increase available glucose
- B. Decrease available glucose
- C. Decrease available carbon dioxide
- **D. Increase available carbon dioxide**

Answer: D

Explanation:

Oxygen is produced during the process of photosynthesis, which occurs in the chloroplasts of plant cells. During photosynthesis, plants use carbon dioxide, water, and light energy to produce glucose and oxygen. Carbon dioxide is one of the key raw materials required for this process. When the availability of carbon dioxide increases, the rate of photosynthesis can also increase, assuming that light and water are not limiting factors. As photosynthesis increases, more oxygen is released as a byproduct. Decreasing carbon dioxide would slow photosynthesis and reduce oxygen production. Glucose is a product of photosynthesis, not a reactant, so changing glucose levels does not directly increase oxygen output. Therefore, increasing available carbon dioxide is the correct answer. The NEX Science exam frequently tests understanding of the inputs and outputs of photosynthesis and how environmental factors affect the process.

NEW QUESTION # 123

Reading Comprehension

Passage:

Sleep deprivation can impair immune function, making individuals more susceptible to illness. Over time, chronic lack of sleep may increase the risk of serious health conditions.

Which statement is best supported by the passage?

- A. Illness always results from lack of sleep
- **B. Adequate sleep supports immune health**
- C. Immune function improves with stress
- D. Sleep has no effect on immunity

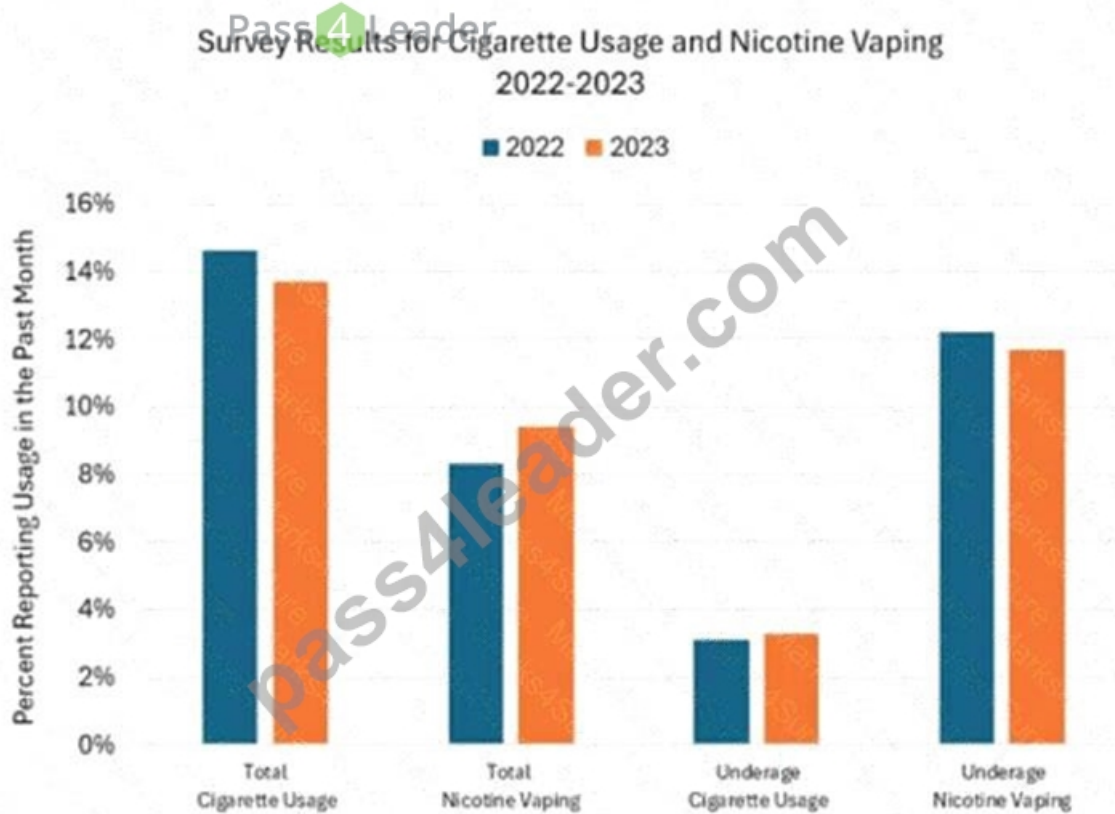
Answer: B

Explanation:

The passage states that lack of sleep weakens immune function and increases susceptibility to illness. This supports the conclusion that adequate sleep supports immune health. Option C accurately reflects this relationship. Options A and D contradict the passage, while option B exaggerates the effect. NEX questions often test the ability to infer logical conclusions without overgeneralizing.

NEW QUESTION # 124

The graph below displays survey results.



Graph adapted from 2023 Companion Infographic Report:
Results from the 2021, 2022, and 2023 National Surveys on Drug Use and Health

Data in the graph indicate that

- A. total cigarette usage increased in 2023.
- B. vaping is more prevalent than using cigarettes in the total population.
- C. vaping is more prevalent than using cigarettes in the underage population.
- D. underage nicotine vaping increased in 2023.

Answer: C

Explanation:

This question tests the ability to analyze and compare data presented in a bar graph. The graph shows both cigarette usage and nicotine vaping for total populations and underage populations in two different years.

When focusing on the underage population, the bars for nicotine vaping are clearly higher than those for cigarette usage in both years shown. This indicates that vaping is more prevalent than cigarette smoking among underage individuals. The graph does not show an increase in total cigarette usage, eliminating option B: While vaping is high overall, the clearest and most directly supported conclusion is specific to the underage population. The NEX Science exam frequently includes questions requiring students to identify the most accurate conclusion supported by data rather than making assumptions beyond what is shown.

Therefore, option A is the best answer.

NEW QUESTION # 125

In order to neutralize a solution of HCl, one could add

- A. CH₃COOH
- B. H₂SO₄
- C. HNO₃
- **D. NaOH**

Answer: D

Explanation:

Hydrochloric acid (HCl) is a strong acid. To neutralize an acid, a base must be added. Sodium hydroxide (NaOH) is a strong base that reacts with HCl to form water and a salt (sodium chloride). This neutralization reaction reduces the acidity of the solution. The other options-HNO₃, CH₃COOH, and H₂SO₄-are all acids and would increase acidity rather than neutralize it. The NEX Science exam often tests acid-base chemistry and emphasizes recognizing common acids and bases. Since NaOH is the only base listed, option C is correct.

NEW QUESTION # 126

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