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**QUESTION 1**

Since 1997, the American Heart Association (AHA) has attempted to increase awareness about cardiovascular disease (CVD) among women. Fortunately, great progress has been made to educate individuals about CVD and its consequences. According to the AHA's 2011 Guidelines for Prevention of Cardiovascular Disease in Women, the misconception that CVD is a "man's disease" has been somewhat disproved, as awareness among the general public increased from 30% in 1997 to 54% in 2009. Unfortunately, CVD continues to be the leading cause of death in the United States for both men and women. Since 1984, the number of deaths related to CVD in women exceeded those in men. In the United States, CVD death rates among women aged 35 to 54 years appear to be increasing by 1% annually, which is most likely attributable to the escalating obesity epidemic. According to the AHA, even though CVD is the number 1 cause of death among women, only 13% of women perceive CVD as a health threat. CVD is responsible for more deaths among women than the next 3 leading causes of death combined, including all forms of cancer. Due to the ongoing prevalence of CVD, increasing awareness and understanding of CVD, especially among the female population, is still a top priority for many health care professionals. As one of the most accessible health care professionals, pharmacists are in a pivotal position to educate and inform their patients of the risks associated with CVD, possible drug therapies, and preventive measures. The AHA has set a goal for 2020 to improve cardiovascular health in all Americans by 20%, while reducing deaths from CVD and stroke by 20%. According to the American Heart Association, in the United States a woman dies of some form of CVD every minute and more than 1 in 3 females have some form of CVD. Studies have demonstrated that gender differences may play an important role in the diagnosis, treatment, and prevention of CVD. Unfortunately, many women may not always recognize the warning signs and symptoms of a heart attack because they sometimes appear more subtle when compared with those typically experienced by men. Results from a study of 515 women who had heart attacks report that 43% did not experience any type of chest pain or pressure during the heart attack. Although the classic symptoms include chest pain, tingling in the left arm, sweating, and shortness of breath, women may also experience some "atypical" symptoms, such as extreme fatigue, nausea, dizziness, indigestion, vomiting, and pain in the neck or back. By learning and recognizing the warning signs, women can take a proactive approach to their cardiovascular health and get treatment earlier to prevent further complications.

Of the following, which is an opinion expressed by the author?

- A. "...only 13% of women perceive CVD as a health threat." In paragraph 1.
- B. "...the misconception that CVD is a 'man's disease'..." in paragraph 1.
- C. "Unfortunately, many women may not always recognize..." in paragraph 4.
- D. "...43% did not experience any type of chest pain..." in paragraph 5.

Correct Answer: C

While it may be true that many women do not recognize the warning signs and symptoms of a heart attack, the inclusion of the word "unfortunately" categorizes this remark as an opinion of the author, and not necessarily an indisputable fact.

QUESTION 2

Rank the following amino acids by increasing pI (isoelectric point):

- I. Lys
- II. Leu



III.

Asp

A.

I

B.

III

C.

II

D.

III

Correct Answer: B

The pI of a molecule is its isoelectric point, or the point at which, in this case, the amino acid will have no overall charge. Categorizing the amino acids: (I) is positively charged and basic; (II) is non polar and neutral; (III) is polar and acidic. Acidic amino acids on average have the lowest pI, nonpolar amino acids have a higher pI, and basic amino acids carry the largest pI.

QUESTION 3

As a result of herbicide treatment, nearly an entire population of a grass possesses an herbicide-resistant gene. This is an example of:

A. Stabilizing selection

B. Directional selection

C. Disruptive selection

D. Sexual selection

E. Artificial selection

Correct Answer: B

Selection that favors one extreme trait over all others is called directional selection. If directional selection continues for many generations, the population will end up with only one allele for that trait.

QUESTION 4

Which of the following has the highest boiling point?

A. methanol



B. n-propanol

C. isopropanol

D. ethanol

Correct Answer: B

Boiling points primarily depend upon the cohesive forces between molecules. When dealing with molecules of relatively similar molecular weights, the boiling points will depend upon the functional groups involved, and as the molecular weight of the molecule increases, the boiling point also increases. Lastly, branching decreases boiling point. With these considerations, n-propanol will exhibit the highest boiling point of the options.

QUESTION 5

What is the product of 0.34 \times 0.06?

A. 0.0204

B. 2.04

C. 0.204

D. 20.4

Correct Answer: A

The product of 0.34 and 0.06 is 0.0204. Remember to count the number of places to the right of the decimal.

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